



FPGA Product Guide

www.alinx.com

2023

ALINX Electronic Technology (Shanghai) Co., Ltd., founded in 2012 and headquartered in Shanghai Songjiang Lingang Science and Technology City, is a company of on-board intelligent products and FPGA technology solutions, with two major brands of "AUMO" and "ALINX", of which the AUMO brand focuses on on-board intelligent products, and the ALINX brand focuses on FPGA products and solutions customization. After ten years of development, the company's products have been exported to more than 30 countries overseas.

100 +

FPGA products

In 2018, the company passed the high-tech enterprise certification and passed the ISO9001 quality system certification,

In 2019, it won the "Science and Technology Innovation Award" in Jiuting Town, Songjiang District, Shanghai,

2000 +

Enterprise users

In 2020, it won the title of "Specialized and Special New Enterprise" in Shanghai,

In 2021, it applied for the approval of the Shanghai Science and Technology SMEs Technology Innovation Fund Project, passed the national science and technology SMEs certification, and passed the high-tech enterprise certification review,

10000 +

Developers

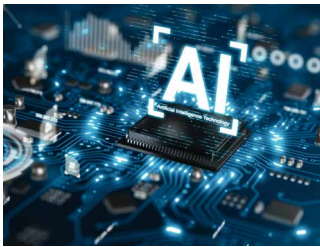
In 2022, it won the special development fund of Zhangjiang National Independent Innovation Demonstration Zone in Shanghai and passed the certification of "Shanghai Innovative SMEs",

ALINX is the official partner of XILINX, the leading enterprise of the global FPGA chip company, and the official partner of Ziguang Tongchuang, the leading enterprise of the domestic FPGA chip company. At the same time, as the partner of Baidu AI, ALINX has customized the Edgeboard series edge equipment of the domestic AI propeller system for Baidu. Through years of research and development investment, more than 100 FPGA SoM modules and supporting boards have been launched, and more than 2000 enterprise batch users and tens of thousands of independent developers have been accumulated. The market share is far ahead.

Through the business mode of products+customized services, ALINX will continue to increase its investment in product research and development and technical research, continue to cooperate with customers in the vertical industry, focus on the field of high-end equipment, and help customers solve technical problems in the industry.

Business Scope

The company mainly focuses on FPGA + AI solutions, FPGA localization, FPGA development kits, and ALINX own brand products. The design solutions provided by the company involve artificial intelligence, automatic driving, rail transit, semiconductor, 5G communication, medical equipment, industrial interconnection, instrumentation, data center, machine vision, video image processing and other industries.



Artificial Intelligence



Auto Pilot



Medical Equipment



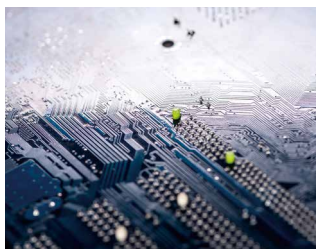
Industrial Automation



Information Communication



Rail Transport



Semiconductor



Instrumentation

About Us	01
Business Scope	02

FPGA Development Boards

Xilinx ZYNQ UltraScale+ MPSoC Development Boards

Z19-P	XCZU19EG	06
Z19	XCZU19EG	06
Z17-P	XCZU17EG	07
AXU15EGB	XCZU15EG	07
Z11-P	XCZU11EG	08
AXU9EGB	XCZU9EG	08
Z7-P	XCZU7EV	09
AXU5EVB-P	XCZU5EV	09
AXU4EVB-P	XCZU4EV	10
AXU5EVB-E	XCZU5EV	10
AXU4EVB-E	XCZU4EV	11
AXU3EGB	XCZU3EG	11
AXU2CGB-E	XCZU2CG	12
AXU2CGA	XCZU2CG	12
AXU2CGB	XCZU2CG	13

Xilinx Zynq-7000 SoC Development Boards

AX7Z100B	XC7Z100	14
AX7Z035B	XC7Z035	14
AX7450B	XC7Z100	15
AX7350B	XC7Z035	15
AX7021B	XC7Z020	16
AX7015B	XC7Z015	16
AX7010	XC7Z010	17
AX7020	XC7Z020	17
AX7Z010B	XC7Z010	18
AX7Z020B	XC7Z020	18

Xilinx Kintex UltraScale+ Development Boards

AXKU5	XCKU5P	19
AXKU3	XCKU3P	19

Xilinx Artix UltraScale+ Development Boards

AXAU15	XCAU15P	20
--------	---------	----

Xilinx Kintex UltraScale Development Boards

AXKU040	XCKU040	21
AXKU041	XCKU040	21
AXKU042	XCKU040	22
AXKU062	XCKU060	22

Xilinx Kintex-7 Development Boards

AX7325B	XC7K325	23
AV7K325	XC7K325	23
AV7K300	XC7K325	24

Xilinx Artix-7 Development Boards

AX7A200B	XC7A200T	25
AX7A035B	XC7A35T	25
AX7203B	XC7A200T	26
AX7202	XC7A200T	26
AX7201	XC7A200T	27
AX7103B	XC7A100T	27
AX7102	XC7A100T	28
AX7101	XC7A100T	28
AX7035B	XC7A35T	29

Xilinx Spartan-7 Development Boards

AX7050	XC7S50	30
--------	--------	----

PANGOMICRO Development Boards

AXP390	PG2T390H	31
AXP391	PG2T390H	31
AXP392	PG2T390H	32
AXP110	PG2L100H	33
AXP100B	PG2L100H	33
AXP50 Laboratory Box	PGL50H	34
AXPGL50H	PGL50H	34
AVP50G	PGL50G	35
PGL22G	PGL22G	35
AXP12	PGL12G	36
PGL12G	PGL12G	36

FPGA SoM Boards

Xilinx M SoM (Stamp hole) Selection Guide	37
---	----

Xilinx M SoM (Stamp Hole)

M5EV	XCZU5EV	38
M4EV	XCZU4EV	38
M3EG	XCZU3EG	38
M2CG	XCZU2CG	39
M7020	XC7Z020	39
M7010	XC7Z010	39

Xilinx Zynq UltraScale+ MPSoC SoM Selection Guide 40

Xilinx Zynq UltraScale+ MPSoC SoM Boards

ACU19EG	XCZU19EG	42
ACU17EG	XCZU17EG	42
ACU15EG	XCZU15EG	42
ACU11EG	XCZU11EG	43
ACU9EG	XCZU9EG	43
ACU7EVC	XCZU7EV	43
ACU5EV	XCZU5EV	44
ACU4EV	XCZU4EV	44
ACU3EG	XCZU3EG	44
ACU2CG	XCZU2CG	44

Xilinx Zynq-7000 SoC SoM Selection Guide 45

Xilinx Zynq-7000 SoC SoM Boards

AC7Z100C	XC7Z100	46
AC7Z035B	XC7Z035	46
AC7015B	XC7Z015	46
AC7021B	XC7Z020	46
AC7020C	XC7Z020	47
AC7010C	XC7Z010	47
AC7Z020	XC7Z020	47
AC7Z010	XC7Z010	47

Xilinx Versal AI Edge SoM Selection Guide 48

Xilinx Versal AI Edge SoM Boards

ACVE2302	XCVE2302	48
----------	----------	----

Xilinx UltraScale+ FPGA SoM Selection Guide 49

Xilinx Kintex UltraScale+ SoM Boards

ACKU5	XCKU5P	50
ACKU3	XCKU3P	50

Xilinx Artix UltraScale+ SoM Boards

ACAU15	XCAU15P	50
--------	---------	----

Xilinx FPGA SoM Selection Guide 51

Xilinx Kintex UltraScale SoM Boards

ACKU040	XCKU040	52
ACKU060	XCKU060	52

Xilinx Kintex-7 SoM Boards

AC7K325B	XC7K325T	52
----------	----------	----

Xilinx Artix-7 SoM Boards

AC7A200	XC7A200T	53
AC7A035	XC7A35T	53
AC7200	XC7A200T	53
AC7100B	XC7A100T	53

Xilinx Spartan-7 SoM Boards

AC7050B	XC7S50	54
---------	--------	----

PANGOMICRO SoM Selection Guide 55

P390	PG2T390H	56
P100	PG2L100H	56
P50	PGL50H	56
P50G	PGL50G	57
P25	PGL25G	57
P22	PGL22G	57
P12	PGL12G	57

PlayLogic Logic Analyzer

P1	Logic Analyzer	58
P2	Logic Analyzer	59
P3	Logic Analyzer	60
P4	Logic Analyzer	61

FMC Cards

FL1010	I/O Expansion Card	63
FH1402	2x M.2 NVMe SSD Card	63
FL9031	4x Gigabit Ethernet Port Card	63
FL2121	4x Gigabit Ethernet Port Card	63
FH1223	4x Gigabit Ethernet Port Card	64
FL9134	HDMI 1080P Input/Output Card	64
FH1159	HDMI 4K Input/Output Card	64
FH7621	HDMI 8K Input/Output Card	64
FL2971	3G-SDI Transport Card	65
FH1219	12G-SDI 4K Transport Card	65
FL1404	4* MIPI Camera Acquisition Card	65
FH1226	CameraLink Collection Card	65
FL9295	4* GSML Input/Output Card	66
FH9712	16* GSML Input Card	66
FL2514	4-channel AD Acquisition Card	66
FL9613	4-channel AD Acquisition Card	66
FL9627	4-channel AD Acquisition Card	67
FL9781	4-channel DA Card	67
FL6000	AD9361 Radio Frequency Card	67
FH7000	AD9371 Radio Frequency Card	67
FH9000	AD9009 Radio Frequency Card	68
FL0214	Binocular Camera Card	68

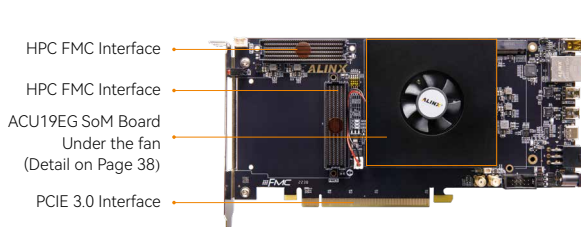
Modules

AN9767	Dual Channel DA Module	69
AN9238	Dual Channel AD Module	69
AN706	AD Acquisition Module	69
AN108	AD/DA Module	69
AN9134	HDMI Output Module	70
AN5640	5 MP Camera Module	70
AN5641	2 Lane MIPI Camera Module	70
AN5A10	4 Lane MIPI Camera Module	70
AN5642	Binocular Camera Module	71
AN970	7" Capacitive Touch Screen Module	71
AN430	4.3" LCD 4.3" LCD Screen Module	71
AN0404	Matrix Keyboard Module	71
AN8211	Gigabit Ethernet Module	72
AN831	Audio Processing Module	72
AN3485	RS232/422/485 Module	72
AN122	Camera Transfer Module	72

Z19-P

Zynq UltraScale+ MPSoC PCIe 3.0 Development Board

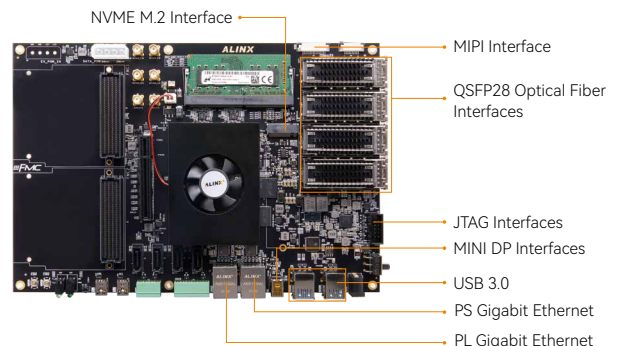
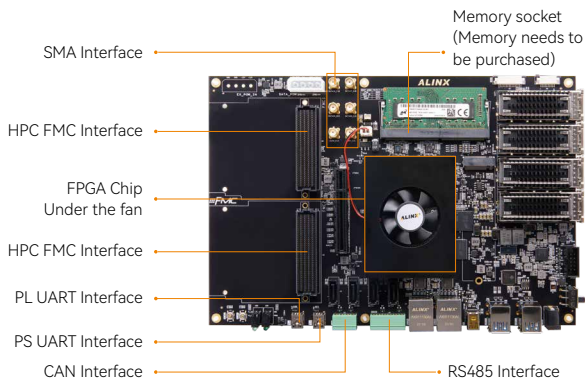
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU19EG-2FFVC1760I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 72bit (ECC), PL 4GB DDR4, 64bit.
- 32GB eMMC FLASH, 128MB QSPI FLASH.
- PCIe 3.0 x16 Interface, Supports PCI Express 3.0 (2.0 compatible).
- 2 HPC FMC Interface, Connect various FMC boards.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, Type-C, UART, JTAG and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



Z19

Zynq UltraScale+ MPSoC Development Board

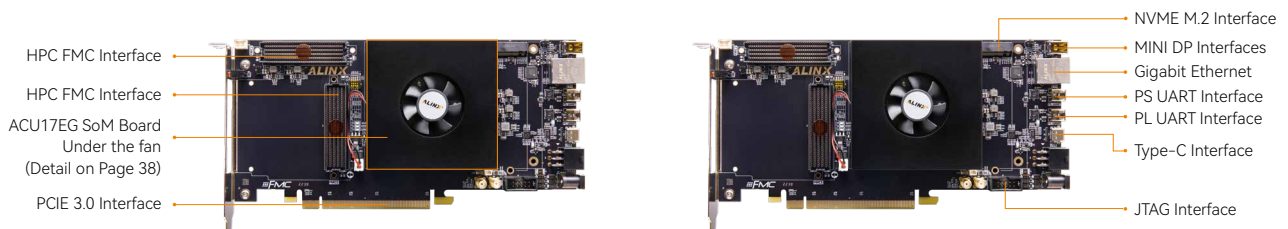
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU19EG-2FFVC1760I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 8GB DDR4, 64bit, PL Side Expansion Supports 32gb Memory.
- 32GB eMMC FLASH, 128MB QSPI FLASH.
- 4 QSFP28 Optical Fiber Interfaces, Transmission Rate up to 100Gbp.
- 2 HPC FMC Interface, Connect Various FMC Boards.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated MIPI Camera, Gigabit Ethernet, CAN/RS485, SATA, USB , UART, JTAG and Other Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).



Z17-P

Zynq UltraScale+ MPSoC PCIe 3.0 Development Board

- FPGA: Xilinx Zynq UltraScale+ MPSoC, XCZU17EG-2FFVC1760I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 72bit (ECC) , PL 4GB DDR4, 64bit.
- 32GB eMMC FLASH, 128MB QSPI FLASH.
- PCIe 3.0 x16 Interface, Supports PCI Express 3.0 (2.0 compatible).
- 2 HPC FMC Interface, Connect various FMC boards.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, Type-C, UART, JTAG and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU15EGB

Zynq UltraScale+ MPSoC Development Board

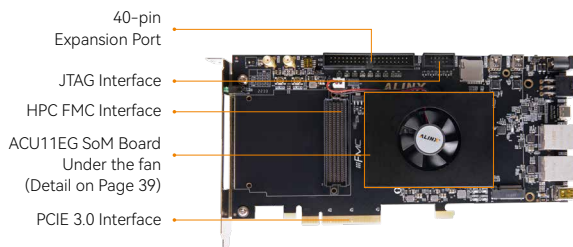
- FPGA: Xilinx Zynq UltraScale+ MPSoC, XCZU15EG-2FFVB1156I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 2GB DDR4, 32bit.
- 8GB eMMC FLASH, 64MB FLASH.
- Standard HPC FMC Interface, Connect various FMC boards.
- 2 SFP+ Optical Fiber Interfaces, Rate Can be Up to 12.5Gbps.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated MIPI Camera, Gigabit Ethernet, USB, UART, JTAG Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



Z11-P

Zynq UltraScale+ MPSoC PCIe 3.0 Development Board

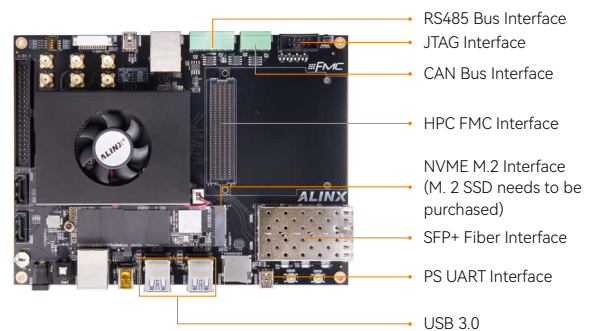
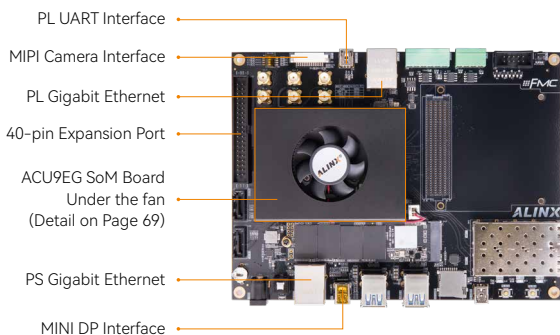
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU11EG-2FFVC1760L.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 4GB DDR4, 64bit.
- 8GB eMMC FLASH, 64MB QSPI FLASH.
- PCIe 3.0 x8 Interface, Supports PCI Express 3.0 (2.0 compatible).
- 1 HPC FMC Interface, Connect various FMC boards.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, Type-C, UART, JTAG and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU9EGB

Zynq UltraScale+ MPSoC Development Board

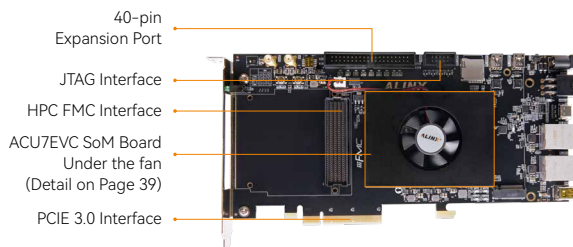
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU9EG-2FFVB1156L.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 2GB DDR4, 32bit.
- 8GB eMMC FLASH, 64MB FLASH.
- Standard HPC FMC Interface, Connect various FMC boards.
- 2 SFP+ Optical Fiber Interfaces, Rate Can be Up to 12.5Gbps.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated MIPI Camera, Gigabit Ethernet, USB, UART, JTAG Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



Z7-P

Zynq UltraScale+ MPSoC PCIe 3.0 Development Board

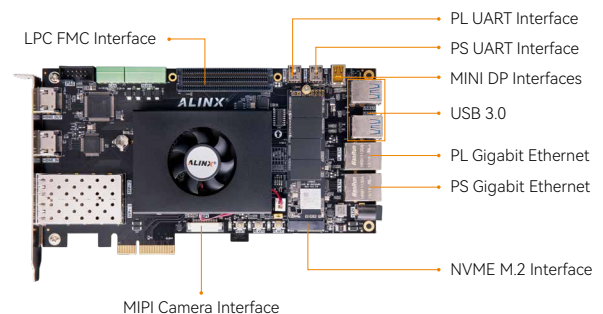
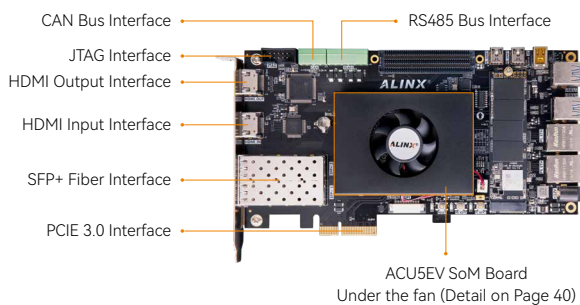
- FPGA: Xilinx Zynq UltraScale+ MPSoC, XCZU7EV-2FFVC1156I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 4GB DDR4, 64bit.
- 8GB eMMC FLASH, 64MB QSPI FLASH.
- PCIe 3.0 x8 Interface, Supports PCI Express 3.0 (2.0 compatible).
- 1 HPC FMC Interface, Connect various FMC boards.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, Type-C, UART, JTAG and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU5EVB-P

Zynq UltraScale+ MPSoC PCIe 3.0 Development Board

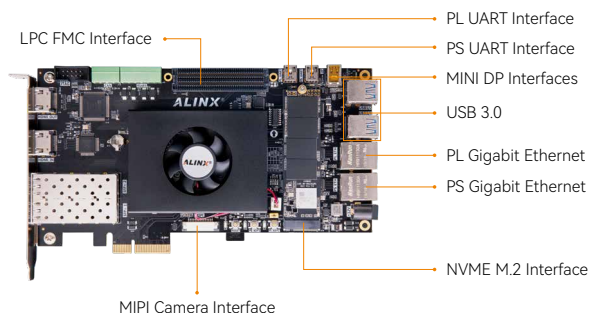
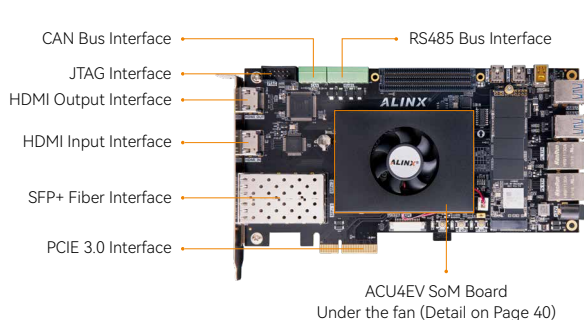
- FPGA: Xilinx Zynq UltraScale+ MPSoC, XCZU5EV-2SFVC784I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- PCIe 3.0 x2 Interface, Supports PCI Express 3.0 (2.0 compatible).
- 2 SFP+ Optical Fiber Interfaces, Rate Can be Up to 12.5Gbps.
- 1 LPC FMC Interface, Connect various FMC boards.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated HDMI, Gigabit Ethernet, MIPI Camera, CAN, RS4585, USB 3.0, UART, JTAG and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU4EVB-P

Zynq UltraScale+ MPSoC PCIe 3.0 Development Board

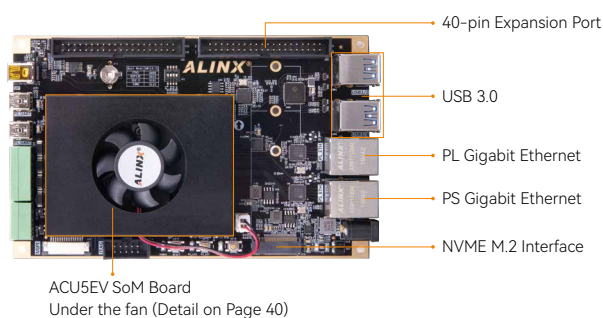
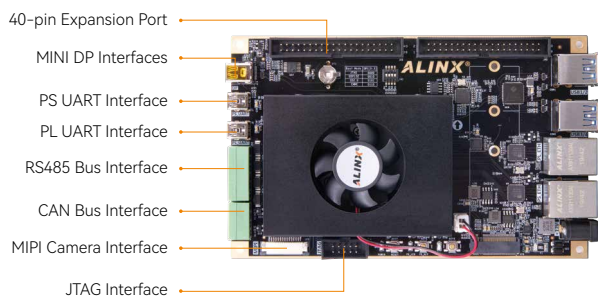
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU4EV-1SFVC784I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- PCIe 3.0 x2 Interface, Supports PCI Express 3.0 (2.0 compatible).
- 2 SFP+ Optical Fiber Interfaces, Rate Can be Up to 12.5Gbps.
- 1 LPC FMC Interface, Connect various FMC boards.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated HDMI, Gigabit Ethernet, MIPI Camera, CAN, RS4585, USB 3.0, UART, JTAG and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU5EVB-E

Zynq UltraScale+ MPSoC Development Board

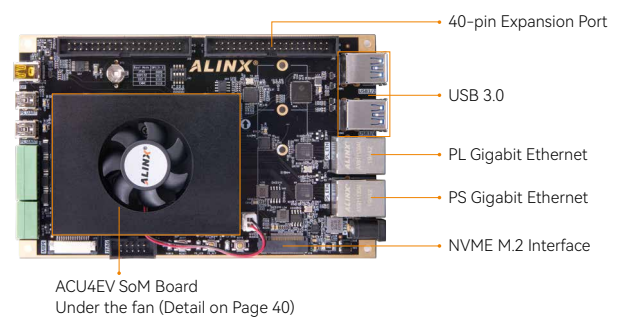
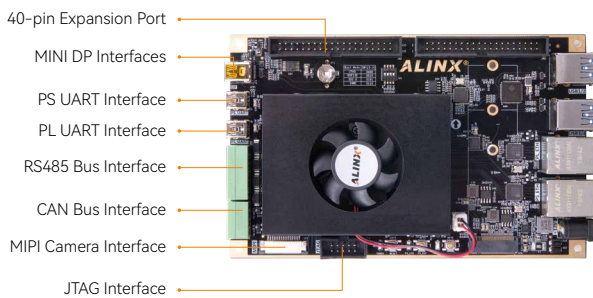
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU5EV-2SFVC784I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- MIPI Camera Input Interface, Connected to the MIPI Camera Module.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, USB 3.0, UART, JTAG, SD Card Slot and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU4EVB-E

Zynq UltraScale+ MPSoC Development Board

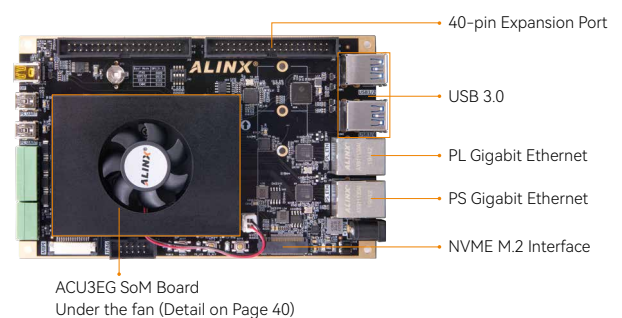
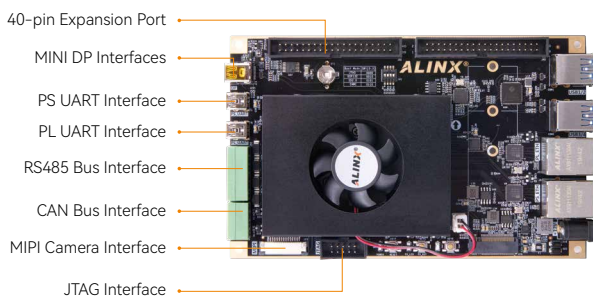
- FPGA: Xilinx Zynq UltraScale+ MPSoC, XCZU4EV-1SFVC784I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- MIPI Camera Input Interface, Connected to the MIPI Camera Module.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, USB 3.0, UART, JTAG, SD Card Slot and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU3EGB

Zynq UltraScale+ MPSoC Development Board

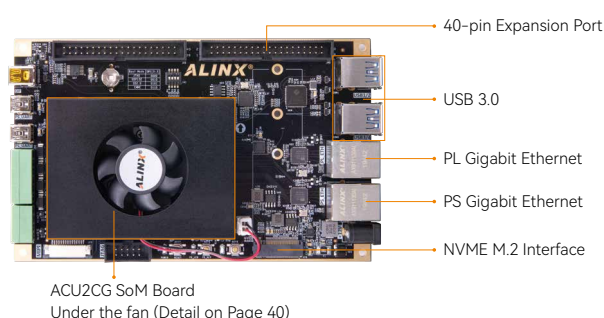
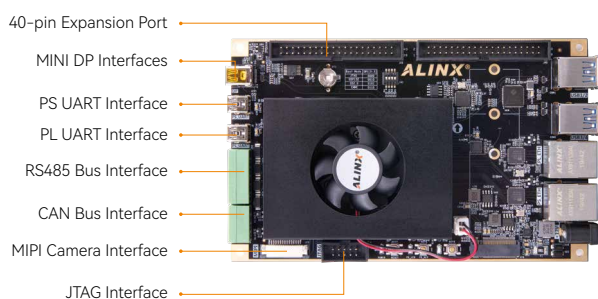
- FPGA: Xilinx Zynq UltraScale+ MPSoC, XCZU3EG-1SFVC784I.
- ARM Cortex™-A53 x4, Cortex-R5 x2, Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit, PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- MIPI Camera Input Interface, Connected to the MIPI Camera Module.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, USB 3.0, UART, JTAG, SD Card Slot and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU2CGB-E

Zynq UltraScale+ MPSoC Development Board

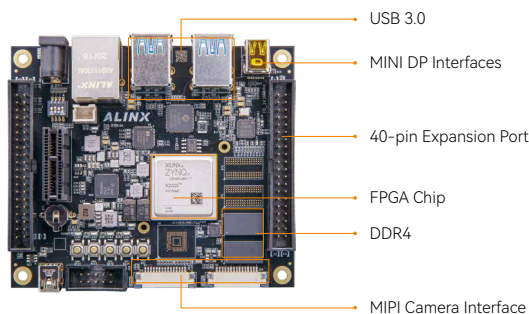
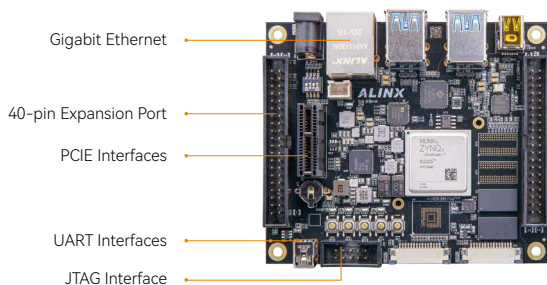
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU2CG-1SFVC784E.
- ARM Cortex™-A53 x2, Cortex-R5 x2.
- PS 2GB DDR4, 64bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- MIPI Camera Input Interface, Connected to the MIPI Camera Module.
- NVME M.2 Interface, Used to Connect M.2 SSD (need to purchase).
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, USB 3.0, UART, JTAG, SD Card Slot and Other Interfaces.
- Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).



AXU2CGA

Zynq UltraScale+ MPSoC Development Board

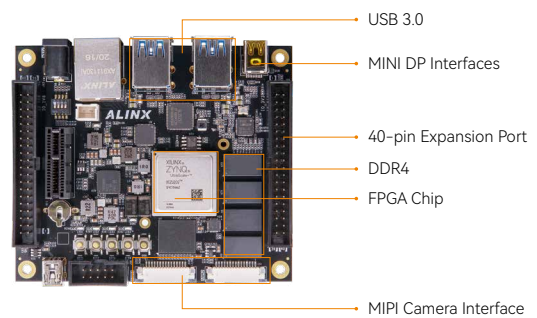
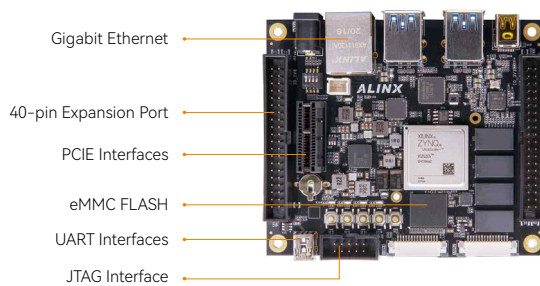
- FPGA: Xilinx Zynq UltraScale+ MPSOC, XCZU2CG-1SFVC784E.
- ARM Cortex™-A53 x2, Cortex-R5 x2.
- PS 1GB DDR4, 32bit, 2400Mbps.
- 32MB QSPI FLASH.
- PCIe x1 Interface, up to 5G Baud.
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, USB 3.0, UART, JTAG, 40-pin Expansion Port, SD Card Slot and Other Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).



AXU2CGB

Zynq UltraScale+ MPSoC Development Board

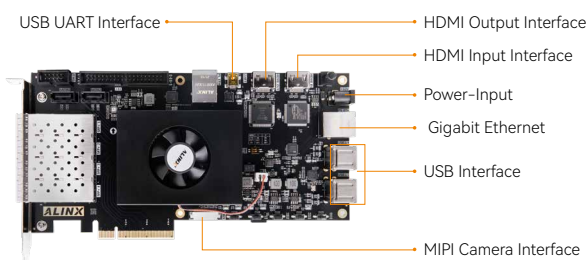
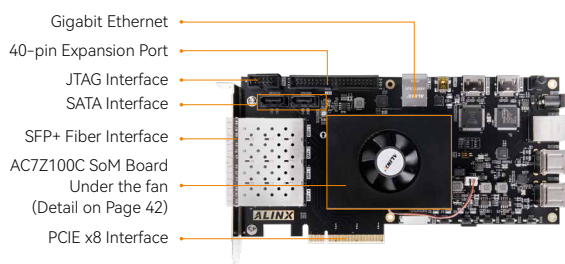
- FPGA: Xilinx Zynq UltraScale+ MPSoC, XCZU2CG-1SFVC784E.
- ARM Cortex™-A53 x2, Cortex-R5 x2.
- PS 2GB DDR4, 64bit, 2400Mbps.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- PCIe x1 interface, up to 5G Baud.
- MINI DP Output Interface, Supports 4K@30Hz or 1080P@60Hz.
- Integrated Gigabit Ethernet, USB 3.0, UART, JTAG, 40-pin Expansion Port, SD Card Slot and Other Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).



AX7Z100B

Zynq-7000 Comprehensive Development Board

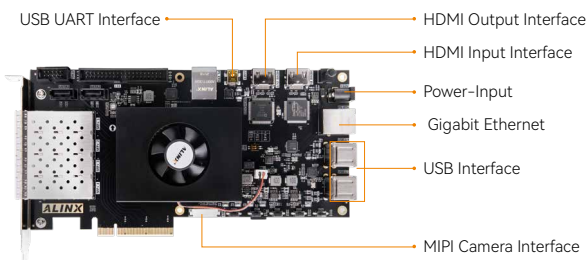
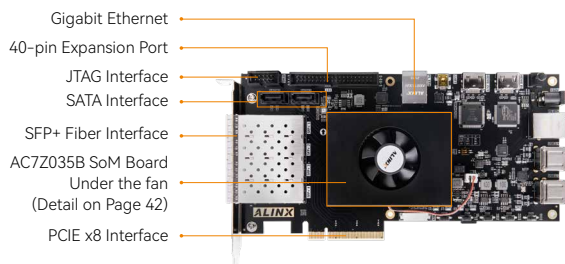
- FPGA: Xilinx Zynq-7000 FPGA, XC7Z100-2FFG900I.
- ARM Cortex-A9 x2 CPU.
- PS Terminal 1GB DDR3, 32bit, 1066Mbps.
- PL 1GB DDR3, 32bit, 1600Mbps.
- 64MB QSPI FLASH, 8GB eMMC FLASH.
- PCIe x8, Supports PCI Express 2.0 standard, Single Channel up to 5Gbps.
- 4 SFP+ Optical Fiber Interfaces, The Transmission Rate Can be Up to 10Gbps.
- Integrated Gigabit Ethernet, USB, HDMI Input and Output, SD Card Slot.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7Z035B

Zynq-7000 Comprehensive Development Board

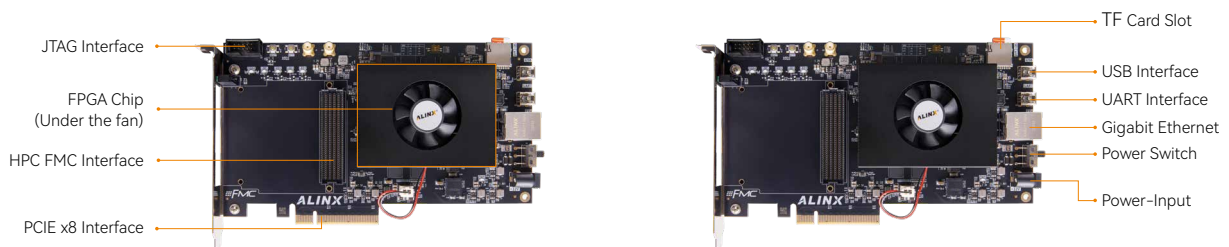
- FPGA: Xilinx Zynq-7000 FPGA, XC7Z035-2FFG676I.
- ARM Cortex-A9 x2 CPU.
- PS Terminal 1GB DDR3, 32bit, 1066Mbps.
- PL 1GB DDR3, 32bit, 1600Mbps.
- 64MB QSPI FLASH, 8GB eMMC FLASH.
- PCIe x8, Supports PCI Express 2.0 standard, Single Channel up to 5Gbps.
- 4 SFP+ Optical Fiber Interfaces, The Transmission Rate Can be Up to 10Gbps.
- Integrated Gigabit Ethernet, USB, HDMI Input and Output, SD Card Slot.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7450B

Zynq-7000 Comprehensive Development Board

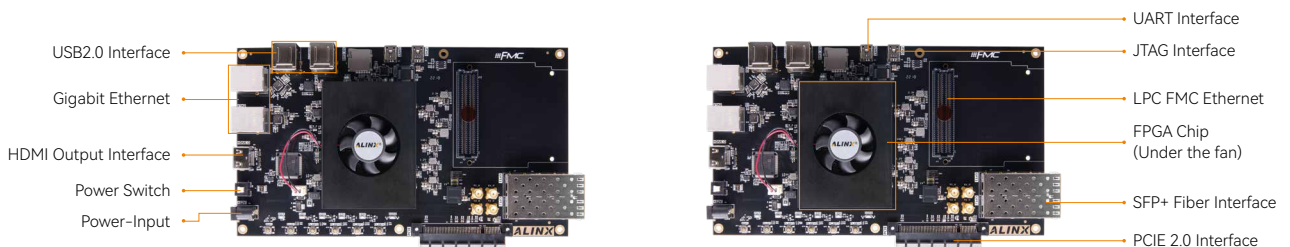
- FPGA: Xilinx Zynq-7000 FPGA, XC7Z100-2FFG900I.
- ARM Cortex-A9 x2 CPU.
- PS 1GB DDR3, 32bit, PL 2GB DDR3, 64bit.
- 8GB eMMC FLASH, 64MB QSPI FLASH.
- PCIe x8, Supports PCI Express 2.0 standard, Single Channel up to 5Gbps.
- 1 HPC FMC Interface, Connect various FMC boards.
- 10/100/1000M Adaptive Gigabit Ethernet Interface.
- Integrated USB 2.0, UART, JTAG, SD Card Slot and Other Common Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7350B

Zynq-7000 Comprehensive Development Board

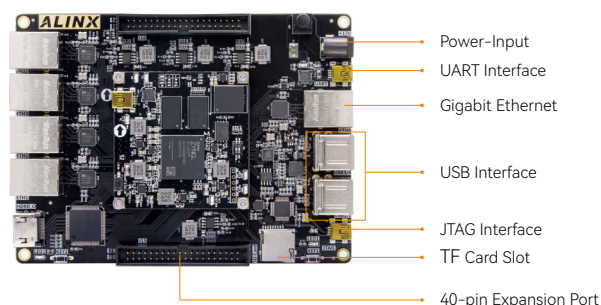
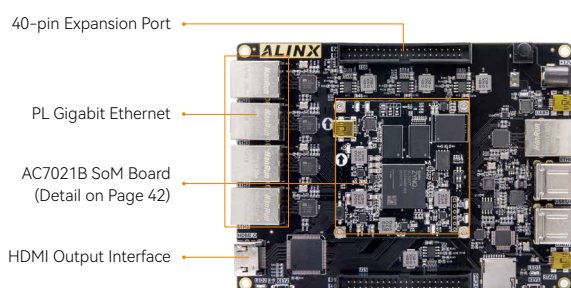
- FPGA: Xilinx Zynq-7000 FPGA, XC7Z035-2FFG676I.
- ARM Cortex-A9 x2 CPU.
- PS 1GB DDR3, 32bit, PL 1GB DDR3, 32bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- HDMI Output Interface, Supports 1080@60Hz Output.
- 1 LPC FMC Interface, Connect various FMC boards.
- 2 SFP Optical Fiber Interfaces, Rate Can be Up to 10Gbps.
- 10/100/1000M Adaptive Gigabit Ethernet Interface.
- Integrated USB 2.0, UART, JTAG, SD Card Slot and Other Common Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).



AX7021B

Zynq-7000 Multi-network Port Development Board

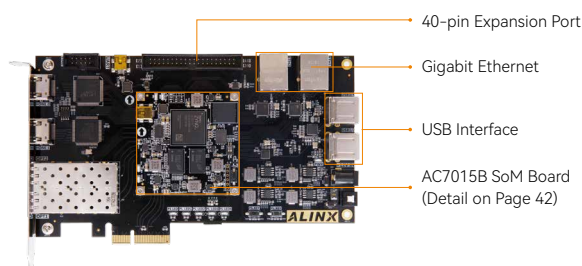
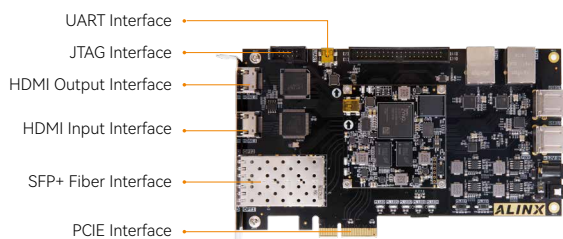
- FPGA: Xilinx Zynq-7000 FPGA, XC7Z020-2CLG484I.
- ARM Cortex-A9 x2 CPU.
- 1GB DDR3, 32bit, 1066Mbps.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- HDMI Output Interface, Supports 1080@60Hz, 3D Output.
- 40-pin Expansion Port for Module.
- 4 Gigabit Ethernet Ports on the PL Side, One Gigabit Ethernet on the PS Side.
- Integrated Gigabit Ethernet, USB, JTAG, SD Card Slot and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7015B

Zynq-7000 Video Processing Development Board

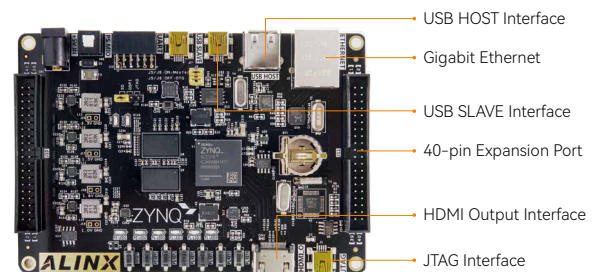
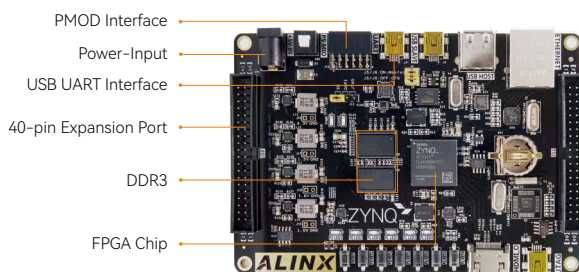
- FPGA: Xilinx Zynq-7000 FPGA, XC7Z015-2CLG485I.
- ARM Cortex-A9 x2 CPU.
- 1GB DDR3, 32bit, 1066Mbps.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- PCIe 2.0 x2 Interface, Single Channel up to 5G Baud.
- 2 SFP+ Optical Fiber Interfaces, The Transmission Rate can be up to 6.6Gbps.
- HDMI Input/Output Interface, Supports 1080@60Hz Input.
- Integrated 2 Gigabit Ethernet, USB, JTAG, UART, TF Card Slot and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7010

Zynq-7000 Entry-level Development Board

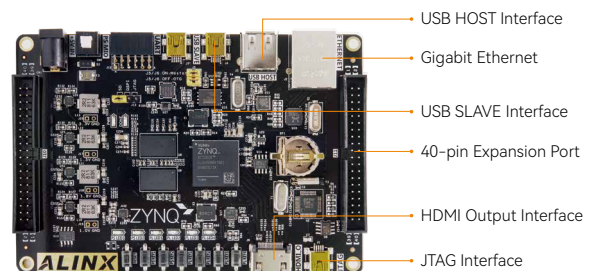
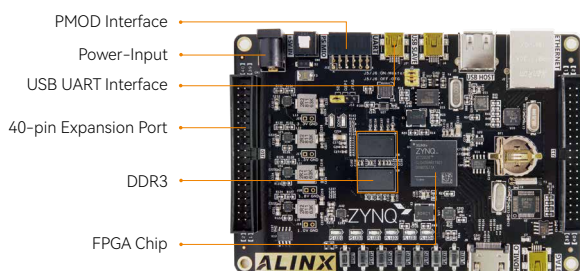
- FPGA: Xilinx Zynq-7000 FPGA, XC7Z010-1CLG400I.
- ARM Cortex-A9 x2 CPU.
- 512MB DDR3, 32bit, 1066Mbps.
- 32MB QSPI FLASH.
- 10/100/1000M Adaptive Gigabit Ethernet Interface.
- Two 40-pin 0.1 inch Expansion Port, 12-pin PMOD Connector.
- Integrated USB 2.0, UART, JTAG, SD Card Slot and Other Common Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7020

Zynq-7000 Entry-level Development Board

- FPGA: Xilinx Zynq-7000 FPGA, XC7Z020-2CLG400I.
- ARM Cortex-A9 x2 CPU.
- 1GB DDR3, 32bit, 1066Mbps.
- 32MB QSPI FLASH.
- 10/100/1000M Adaptive Ethernet Interface.
- HDMI Output Interface, Supports 1080@60Hz Output.
- Two 40-pin 0.1 inch Spacing Expansion Headers, 12-pin PMOD Connector.
- Integrated USB, UART, JTAG, SD Card Slot and Other Common Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.

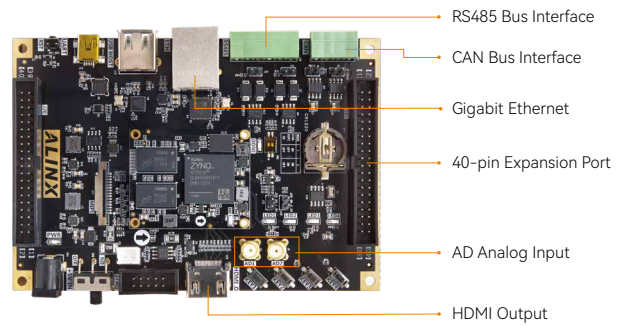
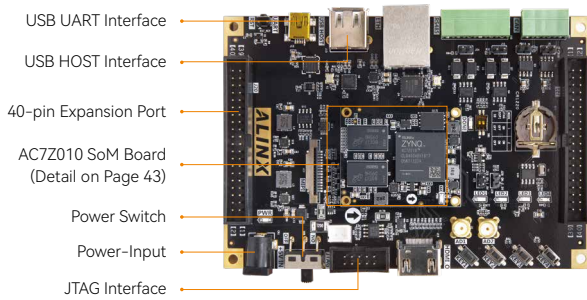


AX7Z010B

Zynq-7000 FPGA Development Board

- FPGA: Xilinx Zynq-7000 FPGA, XC7Z010-1CLG400I.
- ARM Cortex-A9 x2 CPU.
- 512MB DDR3, 32bit, 1066Mbps.
- 32MB QSPI FLASH, EEPROM 24LC04.
- HDMI Output, Supports 1080P Video Image Transmission.
- Gigabit Ethernet Interface, 485/CAN Communication Interface.

- 2x 40-pin Expansion Port for ALINX Brand Modules.
- USB UART, USB 2.0 Host, JTAG Debug , Micro SD Card Slot.
- AD Analog Input, Temperature Sensor Chip LM75.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, porting Tutorials, Easier to Get Started With.

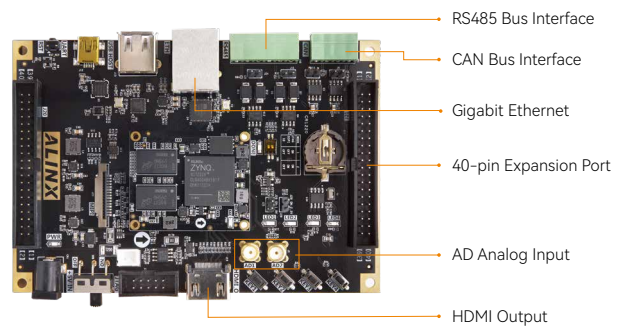
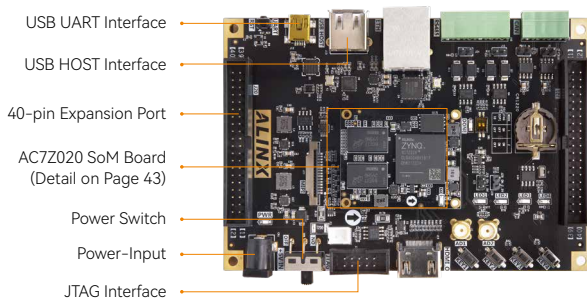


AX7Z020B

Zynq-7000 FPGA Development Board

- FPGA: Xilinx Zynq-7000 FPGA, XC7Z020-2CLG400I.
- ARM Cortex-A9 x2 CPU.
- 1GB DDR3, 32bit, 1066Mbps.
- 32MB QSPI FLASH, EEPROM 24LC04.
- MIPI Interface, Support MIPI OV5640 Camera.
- HDMI Output, Supports 1080P Video Image Transmission.

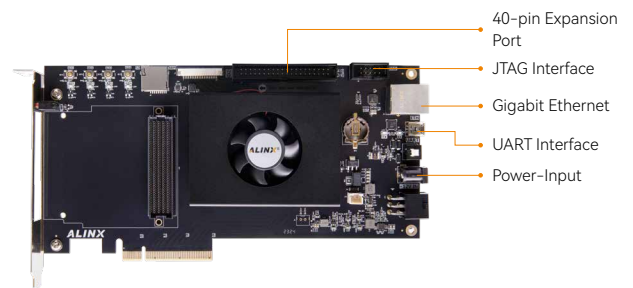
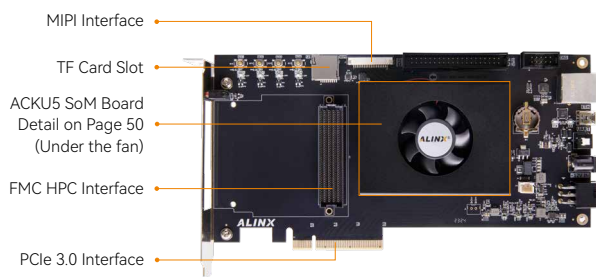
- Gigabit Ethernet Interface, 485/CAN Communication Interface.
- 2x 40-pin Expansion Port for ALINX Brand Modules.
- UART, USB 2.0 Host, JTAG Debug , SD Card Slot, 40-pin Expansion Port.
- AD Analog Input, Temperature Sensor Chip LM75.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXKU5

Kintex UltraScale+ FPGA PCIE3.0 Development Board

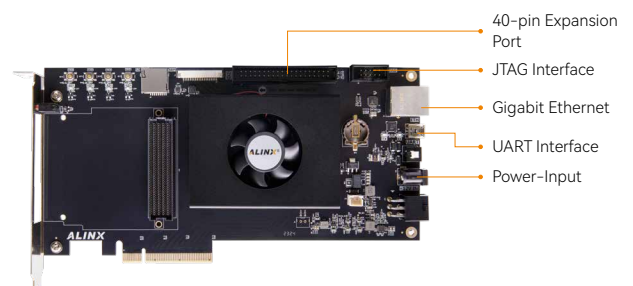
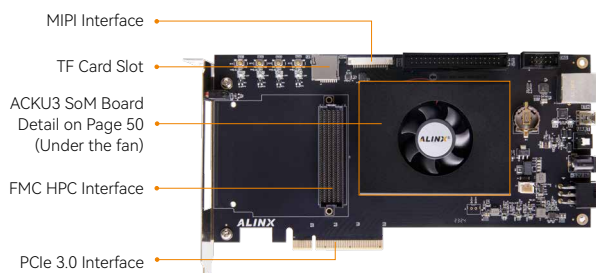
- FPGA: Xilinx Kintex UltraScale+ XCKU5P-2FFVB676I.
- 2GB DDR4, 32bit; 64MB QSPI FLASH.
- 1 HPC FMC Extension Port, External ALINX Various FMC Boards.
- PCIe 3.0 x8, Single Channel Pass Rate Up to 8Gbps.
- 10/100/1000M Adaptive Ethernet Interface.
- 1 CSI-2 MIPI 4Lane Interface, External AN5A10 MIPI Camera Modules.
- On-board Temperature Sensor and EEPROM.
- Integrated UART, JTAG, TF SD Card Slot and Other Common Interfaces .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, porting Tutorials, Easier to Get Started With.



AXKU3

Kintex UltraScale+ FPGA PCIE3.0 Development Board

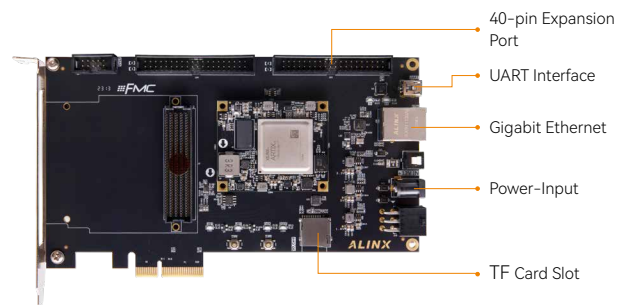
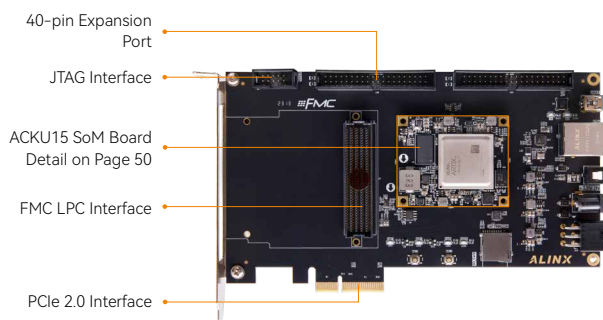
- FPGA: Xilinx Kintex UltraScale+ XCKU3P-2FFVB676I.
- 2GB DDR4, 32bit; 64MB QSPI FLASH.
- 1 HPC FMC Extension Port, External ALINX Various FMC Boards.
- PCIe 3.0 x8, Single Channel Pass Rate Up to 8Gbps.
- 10/100/1000M Adaptive Ethernet Interface.
- 1 CSI-2 MIPI 4Lane Interface, External AN5A10 MIPI Camera Modules.
- On-board Temperature Sensor and EEPROM.
- Integrated UART, JTAG, TF SD Card Slot and Other Common Interfaces .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, porting Tutorials, Easier to Get Started With.



AXAU15

Artix UltraScale+ FPGA PCIE3.0 Development Board

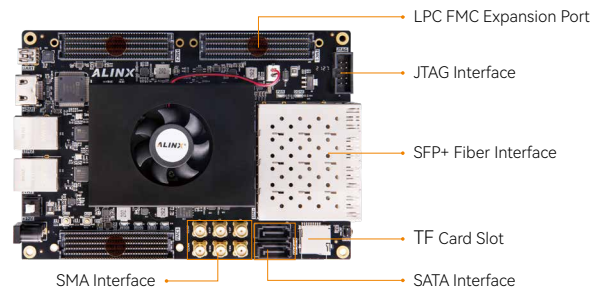
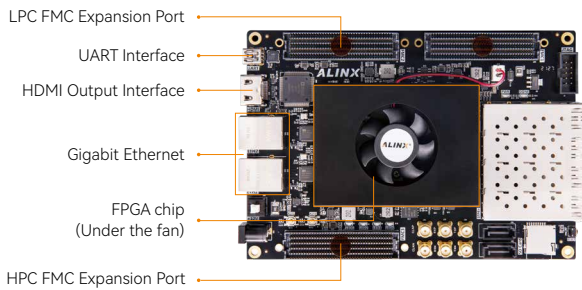
- FPGA: Xilinx Artix UltraScale+ XCAU15P-2FFVB6761.
- 1GB DDR4, 16bit,32MB QSPI FLASH.
- 1 LPC FMC Extension Port, External ALINX Various FMC Boards.
- PCIe 3.0 x4, Single Channel Pass Rate Up to 8Gbps.
- 10/100/1000M Adaptive Ethernet Interface.
- 2x 40-pin Expansion Port for ALINX Brand Modules.
- Integrated UART, JTAG, TF SD Card Slot and Other Common Interfaces .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, porting Tutorials, Easier to Get Started With.



AXKU040

Kintex UltraScale FPGA Development Board

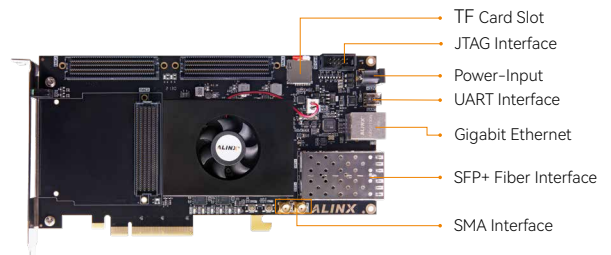
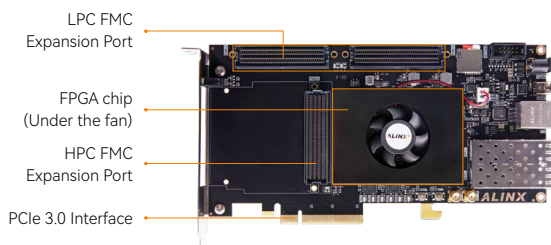
- FPGA: Xilinx KINTEX UltraScale XCKU040-2FFVA11561.
- 4GB DDR4, 64bit, 16MB QSPI FLASH.
- 4 SFP+ Optical Connectors, Up to 12.5 Gbps each.
- HDMI output interface, supports 1080P@60Hz Output, 3D Output.
- 1 HPC FMC Extension Port, 2 LPC FMC Expansion Port.
- 2 Gigabit Ethernet, 6 SMA and 2 SATA interfaces.
- On-board Temperature Sensor and EEPROM.
- Integrated USB to UART, JTAG, SD Card Slot and Other Common Interfaces .
- Customized Cooling Fan, Maximum Cooling Power Consumption 30W.
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXKU041

Kintex UltraScale PCIe3.0 Development Board

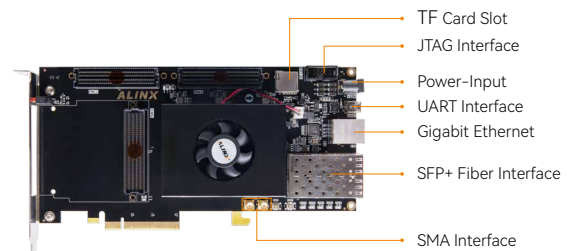
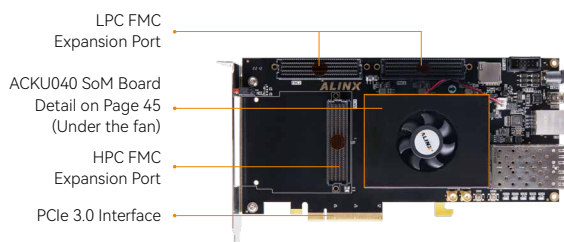
- FPGA: Xilinx KINTEX UltraScale XCKU040-2FFVA11561.
- 4GB DDR4, 64bit, 64MB QSPI Flash.
- 2 SFP+ Optical Connectors, Up to 16.3 Gb/s each.
- 1 HPC FMC Extension Port, 2 LPC FMC Expansion Port.
- PCIe 3.0 x8, Single Channel Pass Rate Up to 8Gbps.
- 1 Gigabit Ethernet interface, 1 USB UART Interface .
- On-board Temperature Sensor and EEPROM.
- Integrate Common Functions Such as JTAG, SMA, TF card slot, Keys, etc.
- High-end Customized Cooling Fan, Maximum Heat Dissipation 30W.
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXKU042

Kintex UltraScale PCIe3.0 Development Board

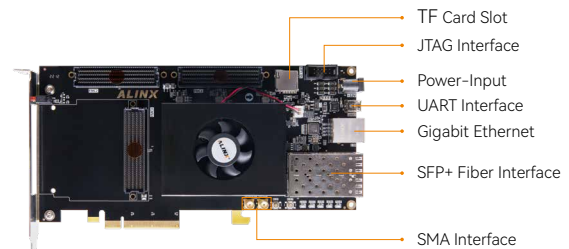
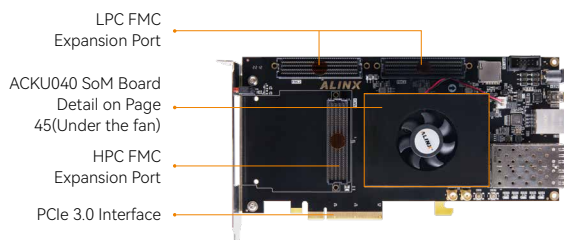
- FPGA: Xilinx KINTEX UltraScale XCKU040-2FFVA11561.
- 4GB DDR4, 64bit, 32MB QSPI Flash.
- 2 SFP+ Optical Connectors, Up to 16.3 Gb/s each.
- 1 HPC FMC Extension Port, 2 LPC FMC Expansion Port.
- PCIe 3.0 x8, Single Channel Pass Rate Up to 8Gbps.
- 1 Gigabit Ethernet interface, 1 USB UART Interface .
- On-board Temperature Sensor and EEPROM.
- Integrate Common Functions Such as JTAG, SMA, TF card slot, Keys, etc.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXKU062

Kintex UltraScale PCIe3.0 Development Board

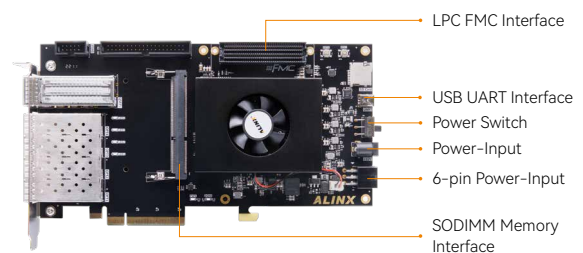
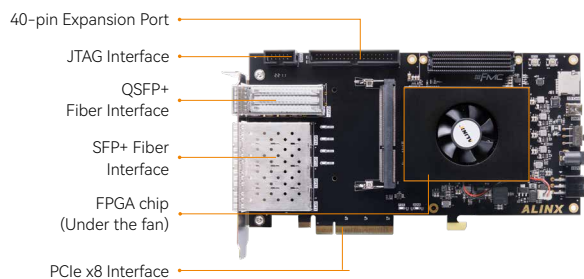
- FPGA: Xilinx KINTEX UltraScale XCKU060-2FFVA11561.
- 4GB DDR4, 64bit, 32MB QSPI Flash.
- 2 SFP+ Optical Connectors, Up to 16.3 Gb/s each.
- 1 HPC FMC Extension Port, 2 LPC FMC Expansion Port.
- PCIe 3.0 x8, Single Channel Pass Rate Up to 8Gbps.
- 1 Gigabit Ethernet interface, 1 USB UART Interface .
- On-board Temperature Sensor and EEPROM.
- Integrate Common Functions Such as JTAG, SMA, TF card slot, Keys, etc.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7325B

Kintex-7 FPGA Network Acceleration Development Board

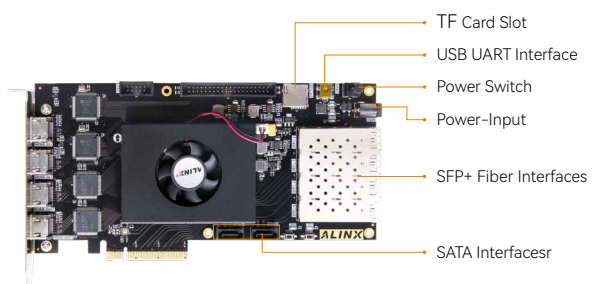
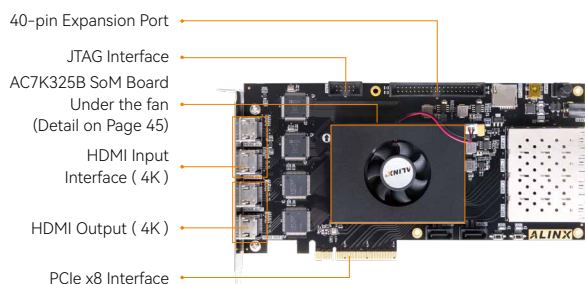
- FPGA: Xilinx Kintex-7 XC7K325T-2FFG900I.
- 2GB DDR3, 64bit, 1600Mbps, 16MB QSPI FLASH.
- QSFP+ Fiber Interface, up to 40Gbps.
- 4 SFP+ Fiber Interfaces, Each Up to 10Gbps.
- PCIe x8, Supports PCI Express 2.0 standard, Single Channel up to 5Gbps.
- Standard LPC FMC Expansion Port.
- SODIMM Memory Module Interface, up to 8GB, 64bit, 800Mbps.
- Integrated USB to UART, JTAG, SD Card Slot and Other Common Interfaces .
- High-end Customized Cooling Fan, Maximum Heat Dissipation 30W.
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AV7K325

Kintex-7 4K HDMI Video Processing Acceleration Development Board

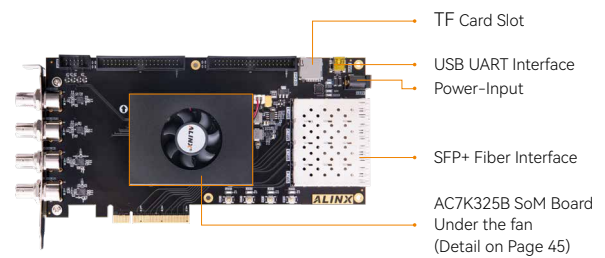
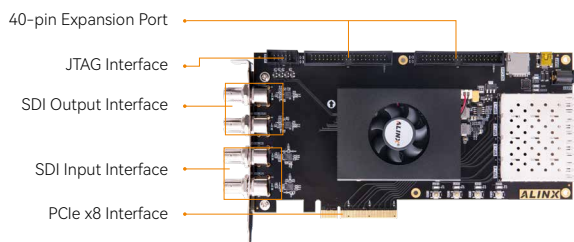
- FPGA: Xilinx Kintex-7 XC7K325T-2FFG900I.
- 2GB DDR3, 64bit, 1600Mbps, 16MB QSPI FLASH.
- 4 SFP+ Fiber Interfaces, Each Up to 10Gbps.
- PCIe x8, Supports PCI Express 2.0 standard, Single Channel up to 5Gbps.
- 2 HDMI Input Interface , Supports Up to 4K@30Hz input.
- 2 HDMI Output Interface , Supports Up to 4K@30Hz Output, 3D Output.
- 1x 40-pin Expansion Port for ALINX Brand Modules.
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated JTAG, SATA, SD Card Slot and Other Common Interfaces.
- Customized Cooling Fan, Maximum Cooling Power Consumption 30W .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AV7K300

Kintex-7 FPGA 3G-SDI Video Processing Acceleration Development Board

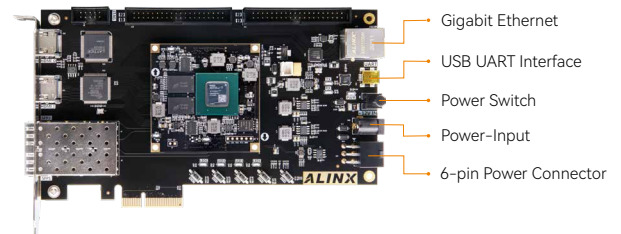
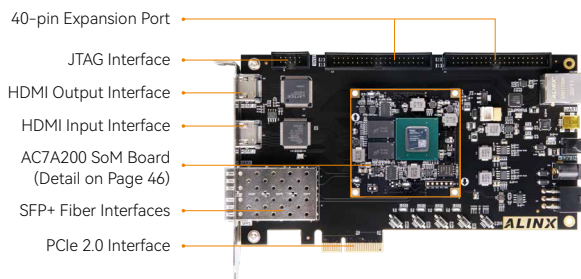
- FPGA: Xilinx Kintex-7 XC7K325T-2FFG900I.
- 2GB DDR3, 64bit, 1600Mbps, 16MB QSPI FLASH.
- 4 SFP+ Fiber Interfaces, Each Up to 10Gbps.
- PCIe x8, Supports PCI Express 2.0 standard, Single Channel up to 5Gbps.
- 2 3G-SDI Input Interface and 2 3G-SDI Output Interface, Supports HDcctv 1.0, HD-SDI (ST 292), 3G_ SDI (ST-424) and SD_ SDI.
- 2x 40-pin Expansion Port for ALINX Brand Modules.
- Integrated USB to UART, JTAG, TF Card Slot and Other Common Interfaces.
- Customized Cooling Fan, Maximum Cooling Power Consumption 30W .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7A200B

Artix-7 FPGA Development Board

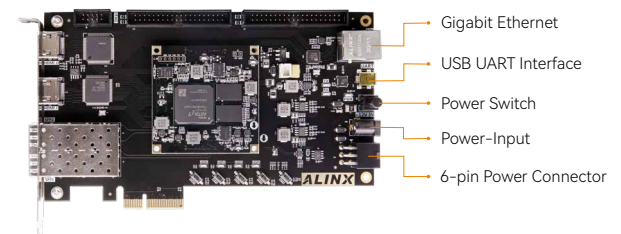
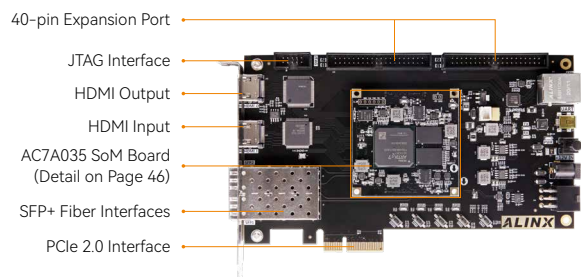
- FPGA: Xilinx Artix-7 XC7A200T-2FBG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- 2 SFP+ Fiber Interfaces , Each Up to 6.6Gbps.
- PCIe 2.0 x2, Single Channel Up to 5Gbps.
- Gigabit Ethernet Interface,EEPROM 24LC04.
- HDMI Input and Output Interface, Supports 1080@60Hz, 3D Output .
- 1 USB UART Interface for Communication and Debugging With Computers.
- JTAG Interface, Micro SD Card Slot, 40-pin Expansion Port x2.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7A035B

Artix-7 FPGA Development Board

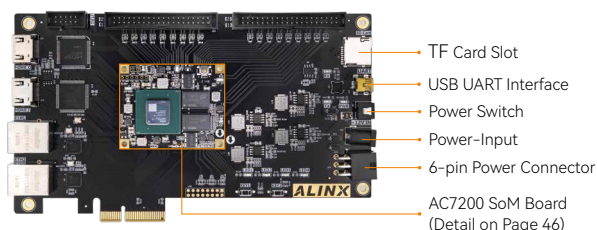
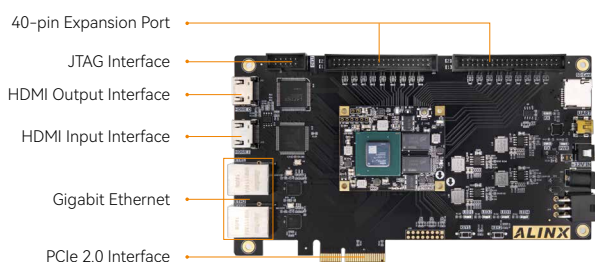
- FPGA: Xilinx Artix-7 XC7A35T-2FGG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- 2 SFP+ Fiber Interfaces , Each Up to 6.6Gbps.
- 2 PCIe 2.0 , Single Channel up to 5Gbps.
- Gigabit Ethernet Interface, EEPROM 24LC04.
- HDMI Input and Output Interface, Supports 1080@60Hz, 3D Output.
- USB UART Interface, Micro SD Card Slot, 40-pin Expansion Port x2.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7203B

Artix-7 FPGA PCIe Development Board

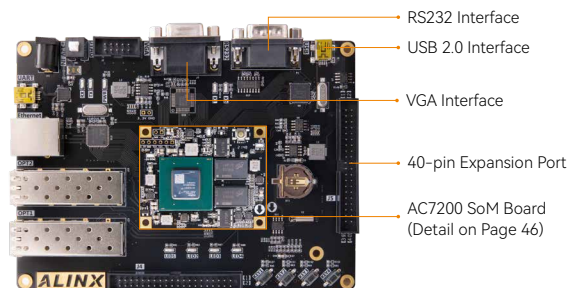
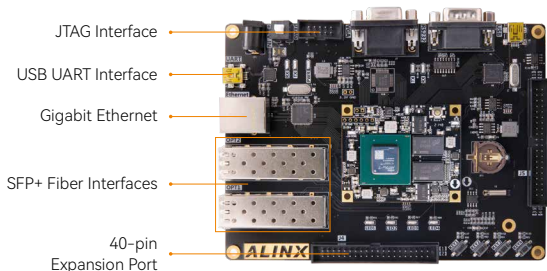
- FPGA: Xilinx Artix-7 XC7A200T-2FGG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- PCIe 2.0 x4 Interface, Single Channel up to 5Gbps.
- 2 Gigabit Ethernet Interface .
- 40-pin Expansion Port x2, AD, camera, LCD .
- HDMI Input and Output Interface, Supports 1080@60Hz, 3D Output.
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated JTAG, TF Card Slot, EEPROM and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7202

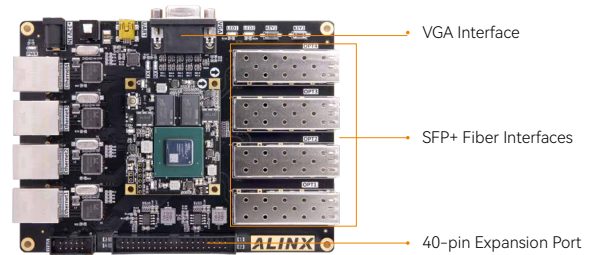
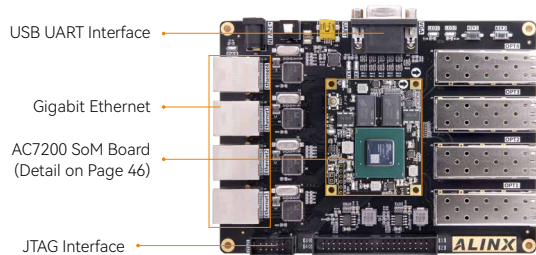
Artix-7 FPGA Development Board

- FPGA: Xilinx Artix-7 XC7A200T-2FGG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- 2 SFP+ Fiber Interfaces, Each Up to 6.6Gbps.
- 1 Gigabit Ethernet Interface.
- VGA Input Interface , Supports Up to 1080P@60Hz Input.
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated RS232, USB, JTAG,TF Card Slot, EEPROM and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



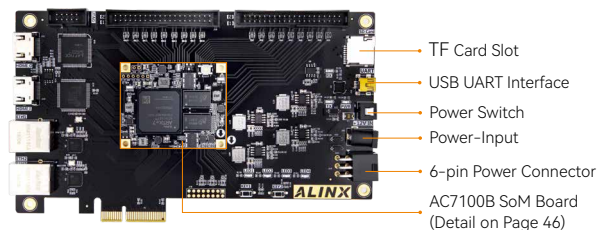
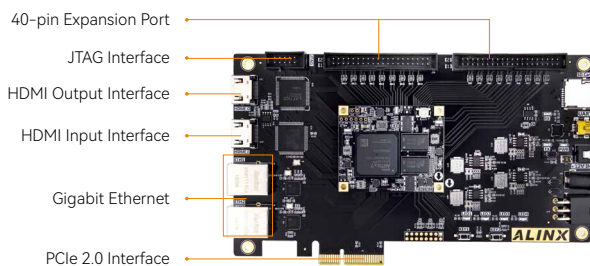
AX7201 Artix-7 FPGA Development Board

- FPGA: Xilinx Artix-7 XC7A200T-2FGG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- 4 SFP+ Fiber Interfaces , Each Up to 6.6Gbps.
- 4 Gigabit Ethernet Interface.
- VGA Input Interface , Supports Up to 1080P@60Hz input.
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated JTAG, 40-pin Expansion Port and Other Common Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7103B Artix-7 FPGA Development Board

- FPGA: Xilinx Artix-7 XC7A100T-2FGG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- PCIe 2.0 x4, Single Channel Up to 5Gbps.
- 2 Gigabit Ethernet Interface.
- 40-pin Expansion Port x2, AD, camera, LCD.
- HDMI Input and Output Interface, Supports 1080@60Hz, 3D Output .
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated JTAG, TF Card Slot, EEPROM and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.

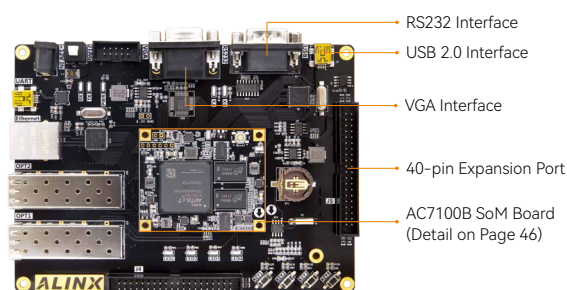
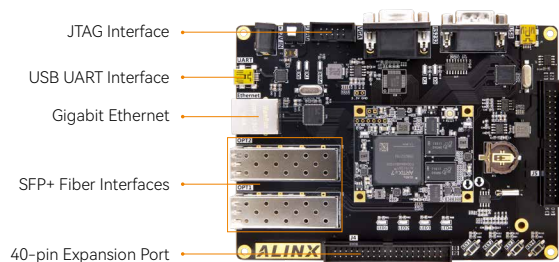


AX7102

Artix-7 FPGA Development Board

- FPGA: Xilinx Artix-7 XC7A100T-2FGG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- 2 SFP+ Fiber Interfaces, Each Up to 6.6Gbps.
- 1 Gigabit Ethernet Interface.
- VGA Input Interface , Supports Up to 1080P@60Hz Input .

- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated USB, JTAG, TF Card Slot, EEPROM and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.

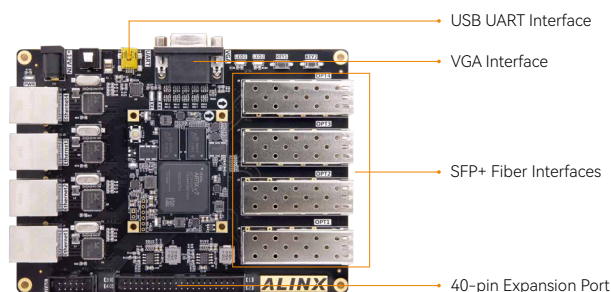
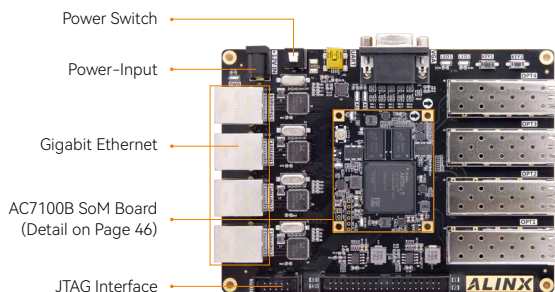


AX7101

Artix-7 FPGA Development Board

- FPGA: Xilinx Artix-7 XC7A100T-2FGG484I.
- 1GB DDR3, 32bit, 800Mbps, 16MB QSPI FLASH.
- 4 SFP+ Fiber Interfaces , Each Up to 6.6Gbps.
- 4 Gigabit Ethernet Interface .
- VGA Input Interface , Supports Up to 1080P@60Hz input.

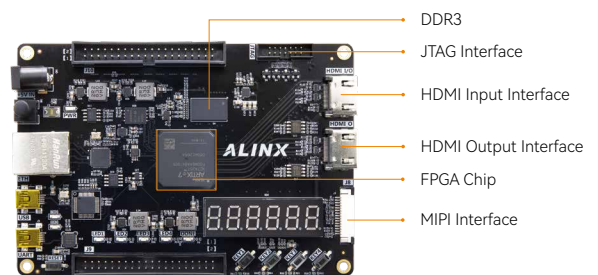
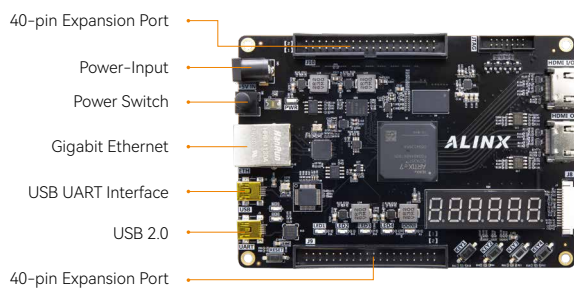
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated JTAG, 40-pin Expansion Port and Other Common Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7035B

Artix-7 FPGA Development Board

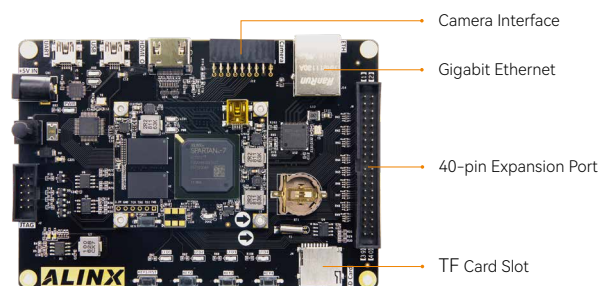
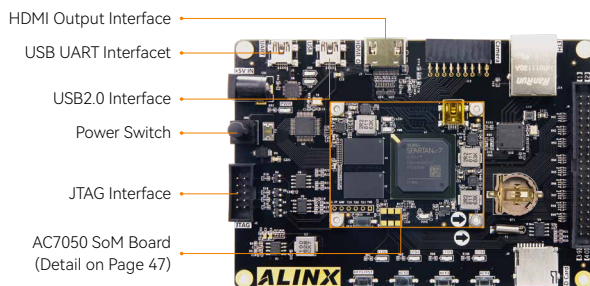
- FPGA: Xilinx Artix-7 XC7A35T-2FGG484I.
- 256MB DDR3, 16bit, 800Mbps, 16MB QSPI FLASH.
- HDMI Output Interface, Supporting 1080P@60Hz.
- HDMI Input Interface, 720P@60Hz Input.
- 1 Gigabit Ethernet Interface .
- 40-pin Expansion Port x2, AD, Camera, LCD Screen, etc.
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated USB, JTAG EEPROM and Other Common Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AX7050

Spartan-7 FPGA Development Board

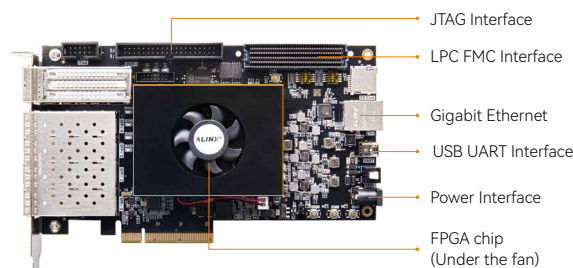
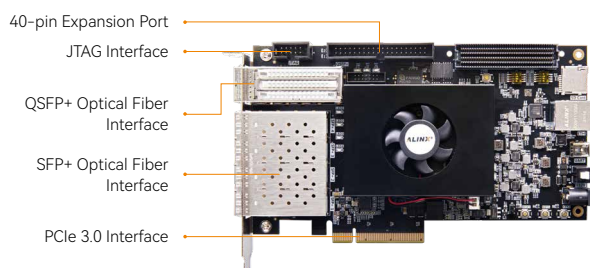
- FPGA: Xilinx Spartan-7 XC7S50-1FGGA484I.
- 1GB DDR3, 32bit, 667Mbps.
- 16MB QSPI FLASH.
- 1 Gigabit Ethernet Interface.
- Camera Interface, Connect to Monocular Camera Module.
- 1 USB UART Interface for Communication and Debugging With Computers.
- Integrated HDMI, USB, SD Card Slot, EEPROM and Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXP390

Titan-2 FPGA High end open Development Board

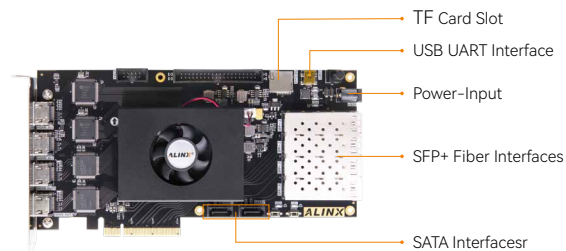
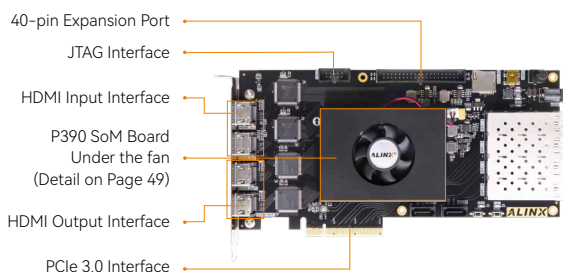
- FPGA: PANGOMICRO FPGA PG2T390H-6IFFBG900.
- 8GB DDR4, 64bit , 2GB DDR3, 64bit.
- 64MB QSPI FLASH.
- 1 QSFP+ Optical Interface, Receiving and Sending ,Up to 40Gb/s.
- 4 SFP+ Optical Interface, Receiving and Sending ,Up to 10Gb/s.
- 1 LPC FMC Expansion Port, External ALINX Various FMC Boards.
- PCIe 3.0 x8 Interface, up to 8Gbp.
- Integrated Gigabit Ethernet, UART, JTAG, TF Card Slot and Other Interfaces .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXP391

Titan-2 FPGA HDMI Video Processing Acceleration Development Board

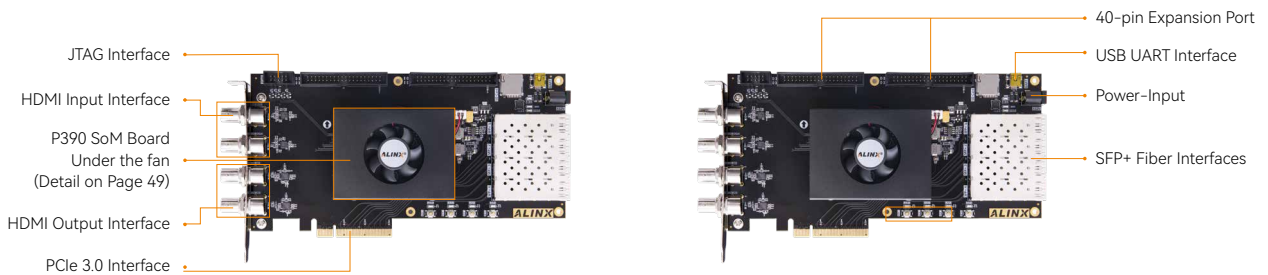
- FPGA: PANGOMICRO FPGA PG2T390H-6IFFBG900.
- 8GB DDR4, 64bit,16MB QSPI FLASH.
- 4 SFP+ Fiber Interfaces, Each Up to 10Gbps.
- PCIe 3.0 x8, Single Channel up to 8Gbps.
- 2 HDMI Input Interface, Supports Up to 4K@30Hz input.
- 2 HDMI Output Interface, Supports Up to 4K@30Hz output.
- 2 40-pin Expansion Port for ALINX Brand Modules.
- Integrated SATA, UART, JTAG, TF Card Slot and Other Common Interfaces.
- Customized Cooling Fan, Maximum Cooling Power Consumption 30W .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXP392

Titan-2 FPGA 3G-SDI Video Processing Acceleration Development Board

- FPGA: PANGOMICRO FPGA PG2T390H-6IFFBG900.
- 8GB DDR4, 64bit, 16MB QSPI FLASH.
- 4 SFP+ Fiber Interfaces, Each Up to 10Gbps.
- PCIe 3.0 x8, Single Channel up to 8Gbps.
- 2 3G-SDI Input Interface and 2 3G-SDI Output Interface, Supports HDcctv 1.0, HD-SDI (ST 292), 3G_SDI (ST-424) and SD_SDI.
- 2 40-pin Expansion Port for ALINX Brand Modules.
- Integrated USB UART, JTAG, TF Card Slot and Other Common Interfaces.
- Customized Cooling Fan, Maximum Cooling Power Consumption 30W .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.

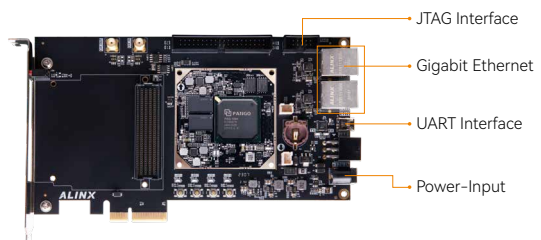
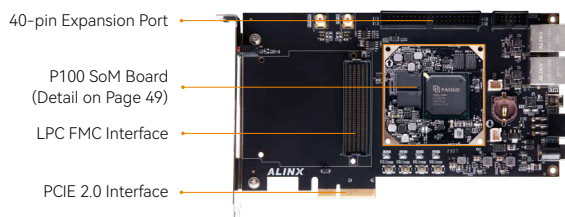


AXP110

Logos-2 FPGA Development Board

- FPGA: PANGOMICRO FPGA PG2L100H-6IFBG676.
- 1GB DDR3, 32bit, 32MB QSPI FLASH.
- PCIe 2.0 x4 Interface, Single Channel Communication Rate Can REach Up to 5GBaud.
- 1 LPC FMC Interface, Connect various FMC boards.

- 1 40-pin Expansion Port for ALINX Brand Modules.
- 2 10/100/1000M Adaptive Gigabit Ethernet Interface.
- Integrated UART, JTAG and Other Common Interfaces.
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.

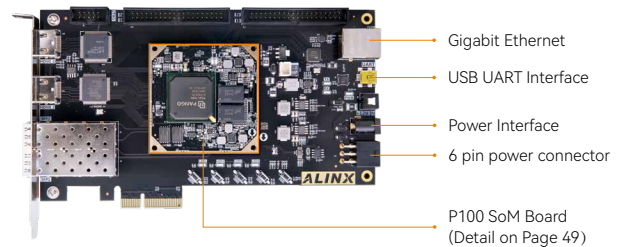
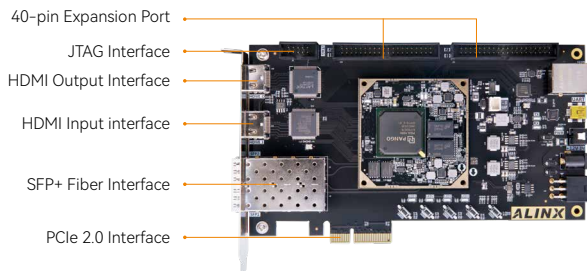


AXP100B

Logos-2 FPGA Development Board

- FPGA: PANGOMICRO FPGA PG2L100H-6IFBG676.
- 1GB DDR3, 32bit, 32MB QSPI FLASH.
- 2 SFP+ Optical Connectors, Up to 6.6Gbps.
- Provide PCIe 2.0 x2 transmission with a single channel communication rate of 5GBaud.
- 10/100/1000M Adaptive Ethernet Interface , EEPROM 24LC04.

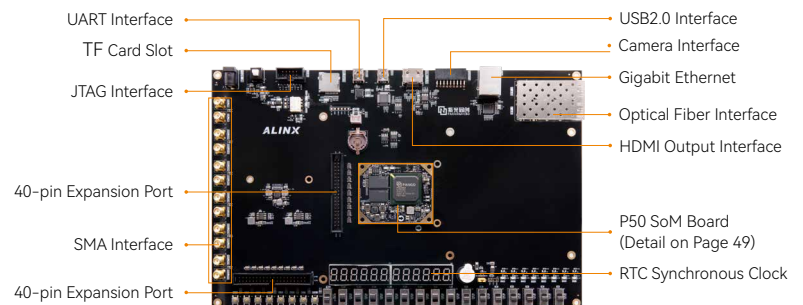
- HDMI Input and Output Interfaces, Support 1080P@60Hz.
- Integrated USB UART, JTAG, 40 pin-extension, TF card slotand Other Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXP50

Logos FPGA Teaching Laboratory Box

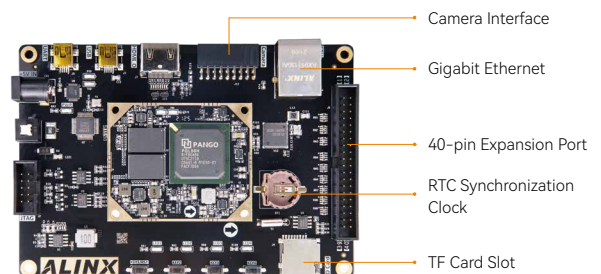
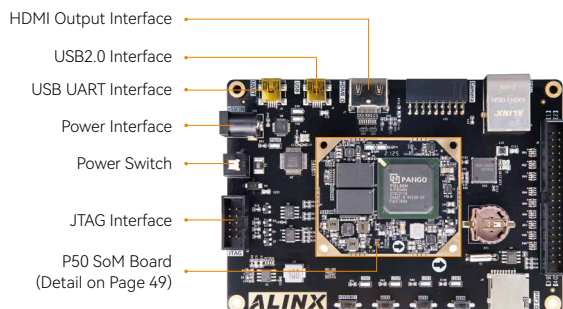
- FPGA: PANGOMICRO FPGA PGL50H-6IFBG484.
- 1GB DDR3, 32bit, 16MB QSPI FLASH.
- AXP50 Development Board x1.
- AN831, AN5640, AN9767, AN9238, AN970 Module 1 Each.
- 1 CMOS Camera Interface, Connected to Monocular Camera Module.
- 2 SFP Optical Fiber Interfaces, 1 Gigabit Ethernet Interface .
- 1 USB interface, 1 UART interface, 1 HDMI Output Interface.
- 40-pin Expansion Port, Connect to Various Support Modules.Integrated TF card slot, JTAG, key, LED , dial switch, nixie tube, SMA, Etc.



AXPGL50H

Logos FPGA Development Board

- FPGA: PANGOMICRO FPGA PGL50H-6IFBG484.
- 1GB DDR3, 32bit, 16MB QSPI FLASH.
- IIC Interface EEPROM 24LC04.
- 10/100/1000M Adaptive Ethernet Interface.
- CMOS Camera Interface, Connected to Monocular Camera Module.
- 40-pin Expansion Port, Connect to Various Support Modules.
- USB UART Interface for Communication Debugging With Computer.
- Integrated HDMI, USB, TF card slot, JTAG and Other Interfaces .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.

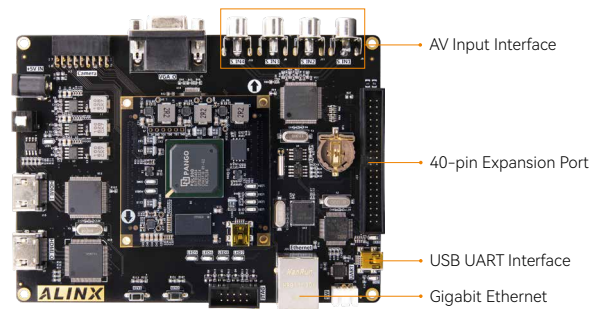
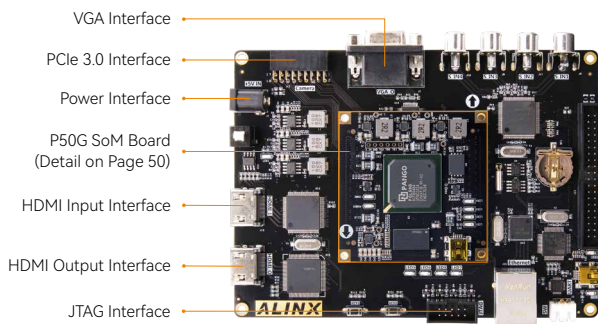


AVP50G

Logos FPGA Development Board

- FPGA: PANGOMICRO FPGA PGL50G-61FBG484.
- 256MB DDR3, 16bit.
- 8MB QSPI FLASH.
- 10/100/1000M Adaptive Ethernet Interface.
- CMOS Camera Interface, Connect OV5640 Camera.

- 4x AV Input.HDMI Input/Output, 1 VGA Output.
- Integrated USB UART, JTAG, 40-pin Extension and Other Common Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.

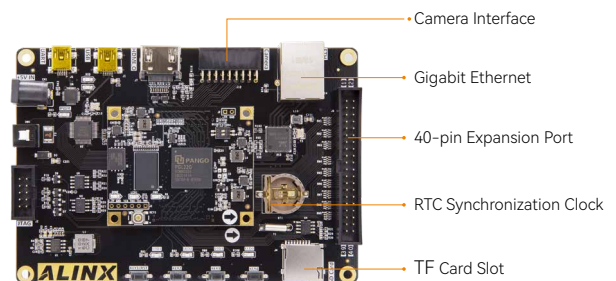
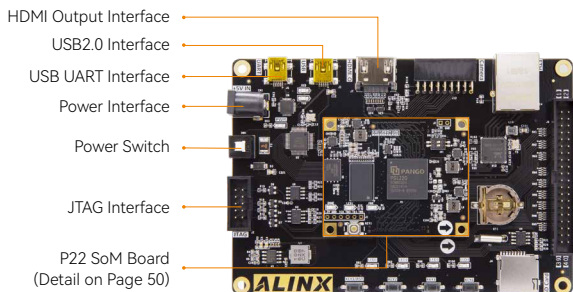


PGL22G

Logos FPGA Development Board

- FPGA: PANGOMICRO FPGA PGL22G-6CMBG324.
- 256MB DDR3, 16bit, 16MB QSPI FLASH.
- IIC Interface EEPROM 24LC04.
- 10/100/1000M Adaptive Ethernet Interface.
- CMOS Camera Interface, Connected to Monocular Camera Module.

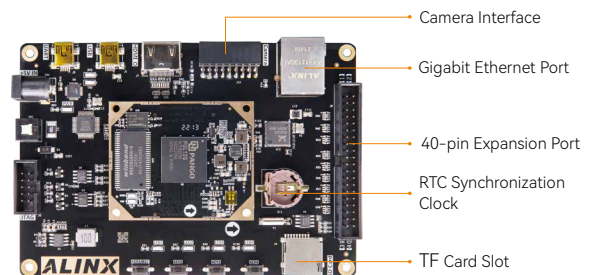
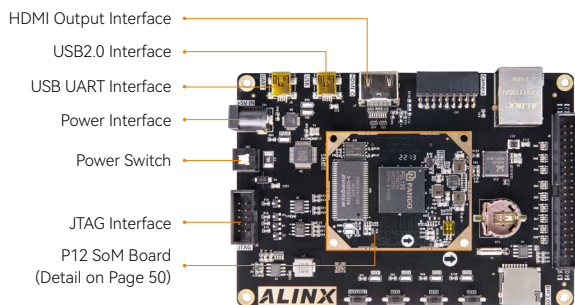
- USB UART Interface for Communication Debugging With Computer.
- 40-pin Expansion Port, Connect to Various Support Modules.
- Integrated HDMI, USB, TF card slot, JTAG and Other Common Interfaces .
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



AXP12

Logos FPGA Development Board

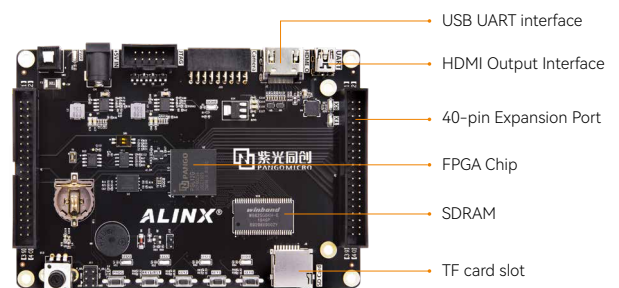
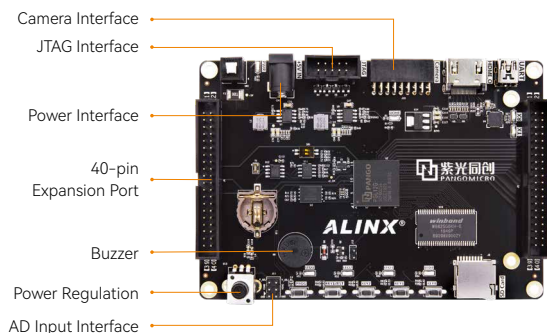
- FPGA: PANGOMICRO FPGA PGL12G-6CFBG256.
- 32MB SDRAM, 16bit, 8MB QSPI FLASH.
- IIC Interface EEPROM 24LC04.
- 10/100/1000M Adaptive Ethernet Interface.
- CMOS Camera Interface, Connected to Monocular Camera Module.
- USB UART Interface for Communication Debugging With Computer.
- 40-pin Expansion Port, Connect to Various Support Modules.
- Integrated HDMI, USB, TF card slot, JTAG and Other Common Interfaces.
- Provide Documents in PDF (Schematic, PCB, Chip Datasheet, User Manual).
- Provide Demos, Supporting Tutorials, Easier to Get Started With.



PGL12G

Logos FPGA Development Board

- FPGA: PANGOMICRO FPGA PGL12G-6CFBG256.
- 32MB SDRAM, 16bit, 8MB QSPI FLASH.
- CMOS Camera Interface, Connected to Monocular Camera Module.
- 2x 40-pin Expansion Port, Externally Connected With Various Supporting Modules.
- HDMI Output Interface.
- USB UART Interface for Communication Debugging With Computer.
- Integrated TF card slot, JTAG and Other Common Interfaces .
- Provide Documents in PDF (Schematic, Chip Datasheet and User Manual).



Xilinx M SoM Boards (Stamp hole) Selection Guide

Core Board Model	M7010	M7020	M2CG	M3EG	M4EV	M5EV
FPGA Chip	XC7Z010-1CLG400I	XC7Z020-2CLG400I	XCZU2CG-1SFVC784E	XCZU3EG-1SFVC784I	XCZU4EV-1SFVC784I	XCZU5EV-2SFVC784I
Working Temperature	Industrial Grade, -40°C-85°C		Commercial Grade 0°C to 70°C	Industrial Grade, -40°C-85°C		
Processor Core	2 x ARM Cortex-A9		2x Cortex-A53 2 x Cortex-R5	4 x Cortex-A53 2 x Cortex-R5		
Processor Frequency	667MHz	766MHz	1.2GHz 500MHz			1.333GHz 533MHz
Graphics Processing Unit	—			Mali-400 MP2		
High-speed Connection Interface	1x Tri-mode Gigabit Ethernet, 1x USB 2.0		PCIe Gen2 x1 , 1x USB3.0 , SATA 3.1 , DisplayPort , 1x Tri-mode Gigabit Ethernet			
Common Connection Interface	1x SD2.0, 1x JTAG					
PS DDR4	512M, 32bit	1GB, 32bit	4GB, 64bit			
QSPI eMMC FLASH	32MB 8GB					
Logic Cells	28K	85k	103K	154K	192K	256K
Flip-Flops	35,200	106,400	94K	141K	176K	234K
LUTs	17,600	53,200	47K	71K	88K	117K
Max. Distributed RAM (Mb)	—	—	1.2Mb	1.8Mb	2.6Mb	3.5Mb
Total Block RAM UltraRAM	2.1Mb 0	4.9 0	5.3Mb 0	7.6Mb 0	4.5Mb 13.5Mb	5.1Mb 18.0Mb
Clock Management Tiles (CMTs)	—	—	3	3	4	
DSP Slices	80	220	240	360	728	1248
Video Codec Unit	—				H.264/H.265	
PS M I/Os	7	7	15	15	15	15
PL I/Os	100	100	102	102	102	102
PL HP I/Os	—	—	96	96	96zz	96
PL HD I/Os	—	—	6	6	6	6
Connection mode	Stamp hole					
Size	2.12 x 2.12 inch		2.76x 1.97 inch			

M5EV | XCZU5EV

- XCZU5EV-2SFVC784I.
- ARM Quad-core Cortex™-A53 1.3GHz.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- Logic Cells 256K.
- Video Codec Unit H.264/H.265.
- PCIe Gen2 X1.
- 1X USB 3.0, Sata 3.1, DisplayPort.
- 1X Tri-speed Gigabit Ethernet.
- PL IO: 96 HP I/O, 6HD I/O.
- GPHY chip.
- USB2.0 PHY chip.
- Industrial Grade, -40°C-85°C.
- 2.76x 1.97 inch.



M4EV | XCZU4EV

- XCZU4EV-1SFVC784I.
- ARM Quad-core Cortex™-A53 1.3GHz.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- Logic Cells 192K.
- Video Codec Unit H.264/H.265.
- PCIe Gen2 X1.
- 1X USB 3.0, Sata 3.1, DisplayPort.
- 1X Tri-speed Gigabit Ethernet.
- PLIO: 96 HP I/O, 6HD I/O.
- GPHY chip.
- USB2.0 PHY chip.
- Industrial Grade, -40°C-85°C.
- 2.76x 1.97 inch.



M3EG | XCZU3EG

- XCZU3EV-1SFVC784I.
- ARM Quad-core Cortex™-A53 1.2GHz.
- ARM Dual-core Cortex-R5 500MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit.
- 8GB eMMC FLASH.
- 32MB QSPI FLASH.
- Logic Cells 154K.
- PCIe Gen2 X1.
- 1X USB 3.0, Sata 3.1, DisplayPort.
- 1X Tri-speed Gigabit Ethernet.
- PLIO: 96 HP I/O, 6HD I/O.
- GPHY chip.
- USB2.0 PHY chip.
- Industrial Grade, -40°C-85°C.
- 2.76x 1.97 inch.



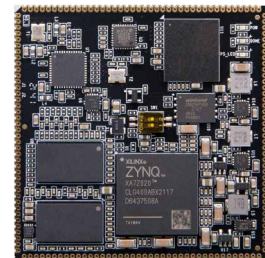
M2CG | XCZU2CG

- XCZU2EV-1SFVC784E.
- ARM Dual-core Cortex™-A53 1.2GHz.
- ARM Dual-core Cortex-R5 500MHz.
- PS 4GB DDR4, 64bit.
- 8GB eMMC FLASH.
- 32MB QSPI FLASH.
- Logic Cells 103K.
- PCIe Gen2 X1.
- 1X USB 3.0,Sata 3.1,DisplayPort.
- 1X Tri-speed Gigabit Ethernet.
- PL IO: 96 HP I/O, 6 HD I/O.
- USB2.0 PHY chip.GPHY chip.
- Commercial Grade, 0°C–70°C.
- 2.76x 1.97 inch..



M7020 | XC7Z020

- XC7Z020-2CLG400I.
- ARM Dual-core Cortex™-A9 767GHz.
- PS 1GB DDR3, 32bit.
- 8GB eMMC FLASH.
- 32MB QSPI FLASH.
- Logic Cells 85K.
- Look Up Tables(LUTs)53,200.
- CLB Flip-Flops 106,400.
- Block RAM 4.9Mb.
- 100 IO,7 MIO.
- 48 LVDS differential pairs.
- 100 voltage adjustable IO.
- GPHY chip.
- USB2.0 PHY chip.
- Industrial Grade, -40°C–85°C.
- 2.12 x 2.12 inch.



M7010 | XC7Z010

- XC7Z010-1CLG400I.
- ARM Dual-core Cortex™-A9 667GHz.
- PS 512MB DDR3, 32bit.
- 8GB eMMC FLASH.
- 32MB QSPI FLASH.
- Logic Cells 28K.
- Look Up Tables(LUTs)17,600.
- CLB Flip-Flops 35,200.
- Block RAM 2.1Mb.
- 100 IO, 7 MIO.
- 48 LVDS differential pairs.
- 100 voltage adjustable IO.
- GPHY chip.
- USB2.0 PHY chip.
- Industrial Grade, -40°C–85°C.
- 2.12 x 2.12 inch.



Xilinx Zynq UltraScale+ MPSoc SoM Boards Selection Guide

SoM Board Mode	ACU2CG	ACU3EG	ACU4EV	ACU5EV	ACU7EVC
FPGA Chip	XCZU2CG-1SFVC784E	XCZU3EG-1SFVC784I	XCZU4EV-1SFVC784I	XCZU5EV-2SFVC784I	XCZU7EV-2FFVB1156I
Working Temperature	CommercialGrade , 0°C-70°C	Industrial Grade, -40°C-85°C			
Processor Core	2 x Cortex A53 2 x CortexR5	4 x Cortex-A53 2 x Cortex-R5			
CPU Frequency	1.2GHz 500MHz	1.2GHz 500MHz		1.333GHz 533MHz	
Graphics Processing Unit	—	Mali-400 MP2			
High-speed Connection Interface	PCIe Gen2 x4 , 2x USB3.0 , Sata 3.1 , DisplayPort , 4x Tri-mode Gigabit Ethernet				
Common Connection Interface	2x USB 2.0 , 2x SD/SDIO , 2x UART, 2x CAN 2.0B , 2x I2C , 2x SPI , 4x 32b GPIO				
PS DDR4	2GB, 64bit	4GB, 64bit, Data Speed 2400Mbps			
PL DDR4	—	1GB, 16bit	1GB, 16bit	1GB, 16bit	4GB, 64bit
QSPI FLASH	32MB	32MB	32MB	32MB	64MB
eMMC FLASH	8GB				
Logic Cells	103K	154K	192K	256K	504K
Flip-Flops	94K	141K	176K	234K	461K
LUTs	47K	71K	88K	117K	230K
Max. Distributed RAM (Mb)	1.2Mb	1.8Mb	2.6Mb	3.5Mb	6.2Mb
Total Block RAM UltraRAM	5.3Mb 0	7.6Mb 0	4.5Mb 13.5Mb	5.1Mb 18.0Mb	11.0Mb 27.0Mb
Clock Management Tiles (CMTs)	3	3	4	4	8
DSP Slices	240	360	728	1248	1728
Video Codec Unit	—	—	H.264/H.265		
PL PCI-Express	—	—	PCIe Gen3 x4		PCIe Gen3 x8
PL GTH 12.5Gb/s	—	—	4	4	16
PL HP I/Os	96	96	96	96	142
PL HD I/Os	84	84	84	84	46
Board-to-board Connector	120pin x4				
Size	3.15x2.36 inch				

Xilinx Zynq UltraScale+ MPSoc SoM Boards Selection Guide

SoM Board Mode	ACU9EG	ACU11EG	ACU15EG	ACU17EG	ACU19EG
FPGA Chip	XCZU9EG-2FFVB1156I	XCZU11EG-2FFVC1760I	XCZU15EG-2FFVB1156I	XCZU17EG-2FFVC1760I	XCZU19EG-2FFVC1760I
Chip level	speed Grades -2, Industrial Grade,-40°C-85				
Processor Core	4 x Cortex-A53, 2 x Cortex-R5, 533MHz				
Graphics Processing Unit	Mali-400 MP2				
High-speed Connection Interface	PCIe Gen2 x4, 2x USB3.0, SATA 3.1, DisplayPort, 4x Tri-mode Gigabit Ethernet				
Common Connection Interface	2x USB 2.0, 2x SD/SDIO, 2x UART, 2x CAN 2.0B, 2x I2C, 2x SPI, 4x 32b GPIO				
PS DDR4	4GB, 64bit			4GB, 72bit (ECC)	
PL DDR4	2GB, 32bit	4GB, 64bit	2GB, 32bit	4GB, 64bit	4GB, 64bit
QSPI FLASH	64MB			128MB	
eMMC FLASH	8GB			32GB	
Logic Cells	600K	653K	747K	926K	1,143K
Flip-Flops	548K	597K	682K	847K	1,045K
LUTs	274K	299K	341K	423K	523K
Max. Distributed RAM (Mb)	8.8Mb	9.1Mb	11.3Mb	8.0Mb	9.8Mb
Total Block RAM UltraRAM	32.1Mb 0	21.1Mb 22.5Mb	26.2Mb 31.5Mb	28.0Mb 28.7Mb	34.6Mb 36zz.0Mb
Clock Management Tiles (CMTs)	4	8	4	11	11
DSP Slices	2520	2,928	3,528	1,590	1,968
150G Interlaken	—	1	—	2	4
100G Ethernet	—	2	—	2	4
PL PCIe Gen 3	—	PCIe Gen3 x4	—	PCIe Gen3 x4	PCIe Gen3 x5
PL GTH 12.5Gb/s	16	32	16	32	32
PL GTY 28.21Gb/s	—	16	—	16	16
PL HP I/Os	96	119	96	240	240
PL HD I/Os	66	71	66	96	96
Board-to-board Connector	120pin x4				
Size	3.15x2.36 inch			3.15x3.15 inch	

ACU19EG | XCZU19EG

- XCZU19EG-2FFVC1760I.
- ARM Quad-core Cortex™-A53.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 72bit (ECC).
- PL 4GB DDR4, 64bit.
- 32GB eMMC FLASH.
- 128MB QSPI FLASH.
- Logic Cells 1,143K.
- PS PCIE Gen2x4, PL PCIE Gen3 x5.
- 2x USB3.0, Sata 3.1, Displayport.
- 4x Tri-speed Gigabit Ethernet.
- PL 32xGTH12.5Gb/s.16xGTY 28.21Gb/s.
- PL IO: 240 HP I/O, 96HD I/O.
- Industrial Grade, -40°C-85°C.
- 3.15x3.15 inch.



ACU17EG | XCZU17EG

- XCZU17EG-2FFVC1760I.
- ARM Quad-core Cortex™-A53.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 72bit (ECC).
- PL 4GB DDR4, 64bit.
- 32GB eMMC FLASH.
- 128MB QSPI FLASH.
- Logic Cells 926K.
- PS PCIE Gen2x4, PL PCIE Gen3 x4.
- 2x USB3.0, Sata 3.1, Displayport.
- 4x Tri-speed Gigabit Ethernet.
- PL 32xGTH12.5Gb/s.16xGTY 28.21Gb/s.
- PLIO:240 HP I/O, 96 HD I/O.
- Industrial Grade, -40°C-85°C.
- 3.15x3.15 inch.



ACU15EG | XCZU15EG

- XCZU15EG-2FFVB1156I.
- ARM Quad-core Cortex™-A53.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit .
- PL 2GB DDR4, 32bit.
- 8GB eMMC FLASH.
- 64MB QSPI FLASH.
- Logic Cells 747K.
- PS PCIE Gen2x4.
- 2x USB3.0, Sata 3.1, Displayport.
- 4x Tri-speed Gigabit Ethernet.
- PL 16xGTH12.5Gb/s.
- PLIO:96 HP I/O, 66 HD I/O.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



ACU11EG | XCZU11EG

- XCZU11EG-2FFVC1760I.
- ARM Quad-core Cortex™-A53.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit .
- PL 4GB DDR4, 64bit.
- 8GB eMMC, 64 MB FLASH.
- Logic Cells 653K.
- PS PCIE Gen2x4, PL PCIE Gen3 x4.
- 1x150G Interlaken,2x100G Ethernet.
- 2x USB3.0, Sata 3.1, Displayport.
- PL 32x GTH12.5Gb/s, 16x GTY 28.21Gb/s.
- PL IO:119 HP I/O, 71 HD I/O.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



ACU9EG | XCZU9EG

- XCZU9EG-2FFVB1156I.
- ARM Quad-core Cortex™-A53.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400 MP2 GPU.
- PS 4GB DDR4, 64bit .
- PL 2GB DDR4, 32bit.
- 8GB eMMC FLASH.
- 64MB QSPI FLASH.
- Logic Cells 600K.
- PS PCIE Gen2x4.
- 2x USB3.0, Sata 3.1, Displayport.
- 4x Tri-speed Gigabit Ethernet.
- PL 16x GTH12.5Gb/s.
- PL IO:96 HP I/O, 66 HD I/O.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



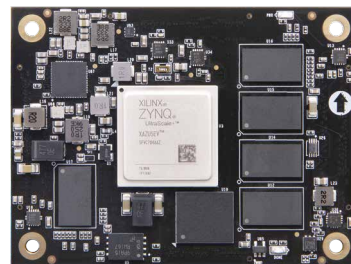
ACU7EVC | XCZU7EV

- XCZU7EV-2FFVB1156I.
- ARM Quad-core Cortex™-A53.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit.
- PL 4GB DDR4, 64bit.
- 8GB eMMC, 64MB QSPI FLASH.
- Logic Cells 504K.
- PS PCIE Gen2x4, PL PCIE Gen3x8.
- 2x USB3.0, Sata 3.1, Displayport.
- 4x Tri-speed Gigabit Ethernet.
- PL 16x GTH12.5Gb/s.
- PL IO: 142HP I/O, 46 HD I/O.
- Video Codec Unit H.264/H.265.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



ACU5EV | XCZU5EV

- XCZU5EV-2SFVC7841.
- ARM Quad-core Cortex™-A53.
- ARM Dual-core Cortex-R5 533MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit.
- PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- Logic Cells 256K.
- PS PCIe Gen2x4, PL PCIe Gen3x4.
- PL 4x GTH12.5Gb/s.
- PL IO: 96 HP I/O, 84 HD I/O.
- Video Codec Unit H.264/H.265.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



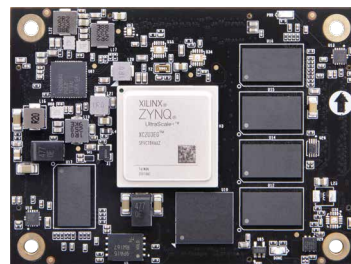
ACU4EV | XCZU4EV

- XCZU4EV-1SFVC7841.
- ARM Quad-core Cortex™-A53 1.2GHz.
- ARM Dual-core Cortex-R5 500MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit.
- PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH, 32MB QSPI FLASH.
- Logic Cells 192K.
- PS PCIe Gen2x4, PL PCIe Gen3x4.
- PL 4x GTH12.5Gb/s.
- PLIO: 96 HP I/O, 84 HD I/O.
- Video Codec Unit H.264/H.265.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



ACU3EG | XCZU3EG

- XCZU3EV-1SFVC7841.
- ARM Quad-core Cortex™-A53 1.2GHz.
- ARM Dual-core Cortex-R5 500MHz.
- Mali™-400MP2 GPU.
- PS 4GB DDR4, 64bit.
- PL 1GB DDR4, 16bit.
- 8GB eMMC FLASH,
- 32MB QSPI FLASH.
- Logic Cells 154K.
- PS PCIe Gen2x4.
- PLIO: 96 HP I/O, 84 HD I/O.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



ACU2CG | XCZU2CG

- XCZU2CG-1SFVC784E.
- ARM Dual-core Cortex™-A53 1.2GHz.
- ARM Dual-core Cortex-R5 500MHz.
- PS 2GB DDR4, 64bit.
- 8GB eMMC FLASH.
- 32MB QSPI FLASH.
- Logic Cells 103K.
- Flip-Flops 94K.
- PS PCIe Gen2x4.
- PLIO: 96 HP I/O, 84 HD I/O.
- Commercial Grade, 0°C~70°C.
- 3.15x2.36 inch.



Xilinx Zynq-7000 SoC SoM Boards Selection Guide

SoM Board Mode	AC7010D	AC7020C	AC7Z010	AC7Z020	AC7021B	AC7015B	AC7Z035B	AC7Z100C	
FPGA Chip	XC7Z010-1CLG400I	XC7Z020-2CLG400I	XC7Z010-1CLG400I	XC7Z020-2CLG400I	XC7Z020-2CLG484I	XC7Z015-2CLG485I	XC7Z035-2FFG676I	XC7Z100-2FFG900I	
Working Temperature	Industrial Grade, -40°C-85°C								
Processor Core	Dual Core ARM Cortex-A9								
CPU Frequency	667MHz	766MHz	667MHz	766MHz			800MHz		
PS interface	2x UART, 2x CAN 2.0B, 2x I2C, 2x SPI, 4x 32b GPIO 2x USB 2.0 (OTG), 2x Trimode Gigabit Ethernet, 2x SD/SDIO								
PS DDR3	512MB, 32bit	1GB, 32bit	512MB, 32bit	1GB, 32bit			1GB, 32bit		
QSPI FLASH	32MB	32MB	32MB	32MB			64MB		
eMMC FLASH	—	—	—	—	8GB	8GB	8GB	8GB	
Logic Cells	28K	85k	28K	85k	85K	74K	275K	444K	
LUTs	17,600	53,200	17,600	53,200	53,200	46,200	171,900	277,400	
Flip Flops	35,200	106,400	35,200	106,400	106,400	92,400	343,800	554,800	
Total Block RAM(Mbit)	2.1	4.9	2.1	4.9	4.9	3.3	17.6	26.5	
DSP Slices	80	220	80	220	220	160	900	2020	
PL MGT & PCI-Express	—					6.25G x4 PCIe Gen2 x4	10.3125G x8 PCIe Gen2 x8	10.3125G x16 PCIe Gen2 x8	
PL DDR3	—						1GB, 32bit ,1600Mbps		
PL IO	94	94	96	120	198	148	144	188	
MIO	8	8	48	48	39	39	37	37	
Voltage Adjustable IO	94	94	94	94	100	50	96	140	
LVDS	47	47	49	61	48	24	48	48	
Board-to-board Connector	40pin x3		120pin x2 (Connector)		80pin x4 (Connector)		120pin x4 (Connector)		
Size	2.99x2.52 inch		1.38x1.65 inch		2.36x2.36 inch		3.15x2.36 inch		

AC7Z100C | XC7Z100

- XC7Z100-2FFG900I.
- ARM Dual-core Cortex-A9, 800MHz.
- PS 1GB DDR3, 32bit.
- PL 1GB DDR3, 32bit.
- 8GB eMMC FLASH. 64MB QSPI FLASH.
- Logic Cells 444K.
- PCIE Gen2x8. High Speed GTX x16.
- 188 IOs. 37 MIOs. 48 LVDS.
- AD Converter x2, 1Mbps.
- Speed Grades -2.
- Industrial Grade, -40°C to 85°C.
- 3.15x2.36 inch.



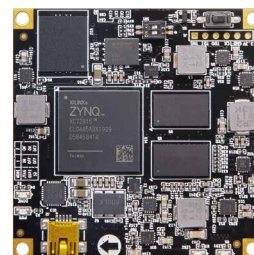
AC7Z035B | XC7Z035

- XC7Z035-2FFG676I.
- ARM Dual-core Cortex-A9, 800MHz.
- PS 1GB DDR3, 32bit.
- PL 1GB DDR3, 32bit.
- 8GB eMMC FLASH.
- 64MB QSPI FLASH.
- Logic Cells 275K.
- High Speed GTX x8.
- PCIE Gen2x8.
- 144 IOs. 37 MIOs. 48 LVDS.
- AD Converter x2, 1Mbps.
- Speed Grades -2.
- Industrial Grade, -40°C to 85°C.
- 3.15x2.36 inch.



AC7015B | XC7Z015

- XC7Z015-2CLG485I.
- ARM Dual-core Cortex-A9, 767MHz.
- PS 1GB DDR3, 32bit.
- 8GB eMMC FLASH.
- 32MB QSPI FLASH.
- Logic Cells 74K.
- PCIE Gen2x4. High Speed GTP x4.
- 148 IOs. 39 MIOs. 24 LVDS.
- AD Converter x2, 1Mbps.
- Speed Grades -2.
- Industrial Grade, -40°C to 85°C.
- 2.36x2.36 inch.



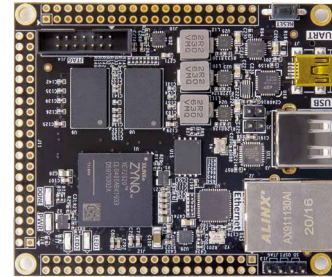
AC7021B | XC7Z020

- XC7Z020-2CLG484I.
- ARM Dual-core Cortex-A9, 767MHz.
- PS 1GB DDR3, 32bit.
- 8GB eMMC FLASH.
- 32MB QSPI FLASH.
- Logic Cells 85K.
- 198 IOs. 39 MIOs. 48 LVDS.
- 100 Voltage Adjustable IOs.
- AD Converter x2, 1Mbps.
- Speed Grades -2.
- Industrial Grade, -40°C to 85°C.
- 2.36x2.36 inch.



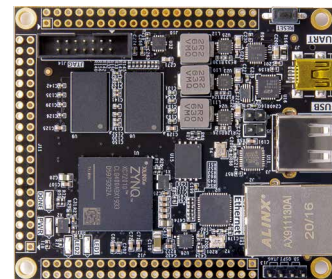
AC7020C | XC7Z020

- XC7Z020-2CLG400I.
- ARM Dual-core Cortex-A9, 767 MHz.
- PS 1GB DDR3, 32bit.
- 32MB QSPI FLASH.
- Logic Cells 85K.
- Look Up Tables (LUTs) 53,200.
- Flip-Flops 106,400.
- 94 IOs, 8 MIOs.
- 47 LVDS.
- 100 Voltage Adjustable IOs.
- AD Converter x2, 1Mbps.
- Speed Grades -2.
- Industrial Grade, -40°C to 85°C.
- 2.99x2.52 inch.



AC7010D | XC7Z010

- XC7Z010-1CLG400I.
- ARM Dual-core Cortex-A9, 667 MHz.
- PS 512MB DDR3, 32bit.
- 32MB QSPI FLASH.
- Logic Cells 28K.
- Look Up Tables (LUTs) 17,600.
- CLB Flip-Flops 35,200.
- 94 IOs, 8 MIOs.
- 47 LVDS.
- 100 Voltage Adjustable IOs.
- AD Converter x2, 1Mbps.
- Speed Grades -1.
- Industrial Grade, -40°C to 85°C.
- 2.99x2.52 inch.



AC7Z020 | XC7Z020

- XC7Z020-2CLG400I.
- ARM Dual-core Cortex-A9, 767 MHz.
- PS 1GB DDR3, 32bit.
- 32MB QSPI FLASH.
- Logic Cells 85K.
- Look Up Tables (LUTs) 53,200.
- CLB Flip-Flops 106,400.
- 120 IOs, 48 MIOs.
- 49 LVDS.
- 100 Voltage Adjustable IOs.
- AD Converter x2, 1Mbps.
- Speed Grades -2.
- Industrial Grade, -40°C to 85°C.
- 1.38x1.65 inch.



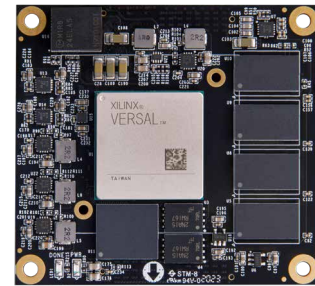
AC7Z010 | XC7Z010

- XC7Z010-1CLG400I.
- ARM Dual-core Cortex-A9, 667 MHz.
- PS 512MB DDR3, 32bit.
- 32MB QSPI FLASH.
- Logic Cells 28K.
- Look Up Tables (LUTs) 17,600.
- CLB Flip-Flops 35,200.
- 94 IOs, 48 MIOs.
- 61 LVDS.
- 100 Voltage Adjustable IOs.
- AD Converter x2, 1Mbps.
- Speed Grades -1.
- Industrial Grade, -40°C to 85°C.
- 1.38x1.65 inch.



ACVE2302 | XCVE2302

- XCVE2302-SFVA784.
- Dual-core APU Arm® Cortex -A72.
- Dual-core RPU Arm® Cortex -R5F.
- 4GB DDR4, 64bit.
- 32MB QSPI FLASH.
- 8GB eMMC FLASH.
- Logic Cells 328,720.
- CLB Flip-Flops 300,544
- LUTs 150,272.
- PCIE 3.0, GTYP 12.5Gb/s x8.
- 84 XPIO, 22 HD IO.
- Commercial Grade, 0°C-100°C.
- 65x60mm.



SoM Board Mode	ACVE2302	UltraRAM (Mb)	43.6
FPGA Chip	XCVE2302-SFVA784	Accelerator RAM (Mb)	32
Working Temperature	Commercial Grade, 0°C-100°C	Total PL Memory (Mb)	85.6
AI Engine-ML	34	APU	Dual-core Arm® Cortex -A72
AI Engine	0	RPU	Dual-core Arm® Cortex -R5F
AIE/AIE-ML Data Memory (Mb)	17		4GB DDR4, 64bit
AIE-ML Shared Memory (Mb)	68	QSPI FLASH	32MB
AIE to NoC Interface	6	eMMC FLASH	8GB
AIE to PL Interface	12		Ethernet x2; UART x2; CAN-FD x2; USB 2.0 x1; SPI x2; I2C x2
DSP Engines	464	PCI Express	PCIE 3.0
System Logic Cells	328,720	40G MAC	1
CLB Flip-Flops	300,544	XPIO	84
LUTs	150,272	HDIO	22
NoC / NoC	5	GTYP	12.5Gb/s x8
Distributed RAM (Mb)	4.6		80pin x4
Total Block RAM (Mb)	5.4		65x60mm

Xilinx Kintex UltraScale+ / Artix UltraScale+ FPGA SoM Boards Selection Guide

SoM Board Mode	ACAU15	ACKU3	ACKU5
FPGA Series	Artix UltraScale+	Kintex UltraScale+	
FPGA Chip	XCAU15P-2FFVB676I	XCKU3P-2FFVB676I	XCKU5P-2FFVB676I
Working Temperature	Industrial Grade, -40°C-85°C	Industrial Grade, -40°C-85°C	
RAM	1GB DDR4, 16bit	2GB DDR4, 32bit	
QSPI FLASH	32MB	64MB	
System Logic Cells (K)	170	356	475
CLB Flip-Flops (K)	156	325	434
CLB LUTs (K)	78	163	217
Max. Distributed RAM (Mb)	2.5	4.7	6.1
Total Block RAM (Mb)	5.1	12.7	16.9
UltraRAM (Mb)	-	13.5	18.0
Clock Mgmt Tiles (CMTs)	3	4	4
DSP Slices	576	1,368	1,824
PCI Express	PCIe 3.0	PCIe 3.0	
GTH/GTY	GTH 12.5Gb/s x12	GTy 28.21Gb/s x16	
100G Ethernet	—	—	1
HD I/Os	74	72	72
HP I/Os	104	96	96
LVDS	48	45	45
Board-to-board Connector	80pin x4	240pin x2	
Size	2.17x1.77 inch	3.15x2.36 inch	

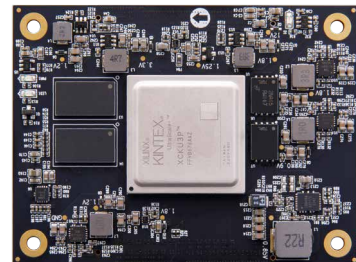
ACKU5 | XCKU5P

- XCKU5P-2FFVB676I.
- 2GB DDR4, 32bit.
- 64MB QSPI FLASH.
- Logic Cells 475K.
- CLB Flip-Flops 434K.
- CLB LUTs 217K.
- Max. Distributed RAM 6.1Mb.
- Total Block RAM 16.9Mb.
- DSP Slices 1,824.
- GTY 28.21Gb/s x16.
- Support PCIE 3.0.
- HD IO 72, HP IO 96.
- 45 LVDS.
- Industrial Grade, -40°C ~ 85°C.
- 3.15x2.36 inch.



ACKU3 | XCKU3P

- XCKU3P-2FFVB676I.
- 2GB DDR4, 32bit.
- 64MB QSPI FLASH.
- Logic Cells 356K.
- CLB Flip-Flops 325K.
- CLB LUTs 163K.
- Max. Distributed RAM 4.7Mb.
- Total Block RAM 12.7Mb.
- DSP Slices 1,368.
- GTY 28.21Gb/s x16.
- Support PCIE 3.0.
- HD IO 72, HP IO 96.
- 45 LVDS.
- Industrial Grade, -40°C ~ 85°C.
- 3.15x2.36 inch.



ACAU15 | XCAU15P

- XCAU15P-2FFVB676I.
- 1GB DDR4, 16bit.
- 32MB QSPI FLASH.
- Logic Cells 170k.
- CLB Flip-Flops 156k.
- CLB LUTs 78k.
- Max. Distributed RAM 2.5Mb.
- Total Block RAM 5.1Mb.
- DSP Slices 576.
- GTH 12.5Gb/s x12.
- Support PCIE 3.0.
- HD IO 74, HP IO 104.
- 48 LVDS.
- Industrial Grade, -40°C ~ 85°C.
- 2.17x1.77 inch.



Xilinx FPGA SoM Boards Selection Guide

SoM Board Mode	AC7050B	AC7A035	AC7100B	AC7200	AC7A200	AC7K325B	ACKU040	ACKU060
FPGA Series	Spartan-7	Artix-7				Kintex-7	Kintex UltraScale	
FPGA Chip	XC7S50-1FGGA484	XC7A35T-2FGG484I	XC7A100T-2FGG484I	XC7A200T-2FBG484I		XC7K325T-2FFG900I	XCKU040-2FFVA1156I	XCKU060-2FFVA1156I
Working Temperature	Commercial Grade 0°C to 70°C	Industrial Grade, -40°C-85°C						
RAM	1GB DDR3, 32bit					2GB DDR3 64bit	4GB DDR4, 64bit	
QSPI FLASH	16MB					16MB	32MB	
Logic Cells	52,160	33,280	101,440	215,360		326,080	530K	726K
Slices / CLB LUTs	8,150	5,200	15,850	33,650		50,950	242,400	331,680
CLB Flip-Flops	65,200	41,600	126,800	269,200		407,600	484,800	663,360
Max.Distributed RAM (Kb)	600	400	1,188	2,888		4,000	7,050	9,180
Block RAM (36Kb each)	75	50	135	365		445	600	1,080
Total Block RAM	2,700Kb	1,800Kb	4,860Kb	13,140Kb		16,020Kb	21.1Mb	38.0Mb
DSP Slices	120	90	240	740		840	1,920	2,760
Transceiver	—	4x 6.6 Gbps				16x 10Gbps	20x 12.5Gbps	20x 12.5Gbps
PCI Express	—	PCIe 2.0				PCIe 2.0	PCIe 3.0	PCIe 3.0
HR IOs	114	146	180	180		276	255	255
HP IOs 1.8V	—	—	—	—		—	99	99
LVDS	37	48	48	48		46	120	120
Board-to-board Connector	80pin x2	80pin x4				120pin x4		
Size	2.17x1.77 inch	2.36x2.36 inch	2.17x1.77 inch	2.17x1.77 inch	2.36x2.36 inch	3.15x2.36 inch	3.15x2.36 inch	3.15x2.36 inch

ACKU060 | XCKU060

- XCKU060-2FFVA1156I.
- 4GB DDR4, 64bit.
- 32MB QSPI FLASH.
- Logic Cells 726K.
- CLB Flip-Flops 663,360.
- CLB LUTs 331,680.
- Maximum Distributed RAM 9,180Kb.
- Total Block RAM 38.0Mb.
- DSP Slices 2,760.
- 20x 12.5Gbps.
- Support PCIE 3.0.
- HR IO 255, HP IOs 99.
- 120 LVDS.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



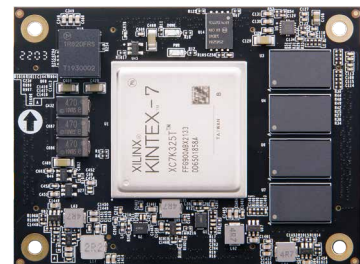
ACKU040 | XCKU040

- XCKU040-2FFVA1156I.
- 4GB DDR4, 64bit .
- 32MB QSPI FLASH.
- Logic Cells 530K.
- CLB Flip-Flops 484,800.
- CLB LUTs 242,400.
- Maximum Distributed RAM 7,050Kb.
- Total Block RAM 21.1Mb.
- DSP Slices 1,920.
- 20x 12.5Gbps.
- Support PCIE 3.0.
- HR IOs 255, HP IOs 99.
- 120 LVDS.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



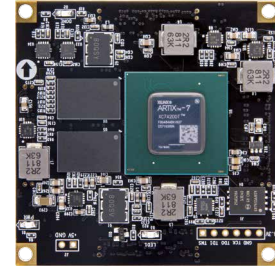
AC7K325B | XC7K325T

- XC7K325T-2FFG900I.
- 2GB DDR3, 64bit .
- 16MB QSPI FLASH.
- Logic Cells 326,080K.
- Slices 50,950.
- CLB Flip-Flops 407,600.
- Maximum Distributed RAM 4,000Kb.
- Total Block RAM 16,020Kb.
- DSP Slices 840.
- High-speed GTX x16.
- Support PCIE 2.0.
- HR IO 276 .
- 100 Voltage Adjustable IOs.
- 138 LVDS.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



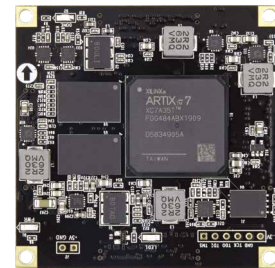
AC7A200 | XC7A200T

- XC7A200T-2FBG484I.
- 1GB DDR3, 32bit .
- 16MB QSPI FLASH.
- Logic Cells 215,360.
- Slices 33,650.
- CLB Flip-Flops 269,200.
- Total Block RAM 13,140Kb.
- DSP Slices 740.
- High-speed GTP x4.
- Support PCIE 2.0.
- 180 IOs. 48 LVDS.
- 100 Voltage Adjustable IOs.
- Industrial Grade, -40°C-85°C.
- 2.36x2.36 inch.



AC7A035 | XC7A35T

- XC7A35T-2FGG484I.
- 1GB DDR3, 32bit .
- 16MB QSPI FLASH.
- Logic Cells 33,280.
- Slices 5,200.
- CLB Flip-Flops 41,600.
- Total Block RAM 1,800Kb.
- DSP Slices 90.
- High-speed GTP x4.
- Support PCIE 2.0.
- 100 Voltage Adjustable IOs.
- 146 IOs. 48 LVDS.
- Industrial Grade, -40°C-85°C.
- 2.36x2.36 inch.



AC7200 | XC7A200T

- XC7A200T-2FBG484I.
- 1GB DDR3, 32bit.
- 16MB QSPI FLASH.
- Logic Cells 215,360.
- Slices 33,650.
- CLB Flip-Flops 269,200.
- Total Block RAM 13,140Kb.
- DSP Slices 740.
- High-speed GTP x4.
- Support PCIE 2.0.
- 100 Voltage Adjustable IOs.
- 180 IOs. 48 LVDS.
- Industrial Grade, -40°C-85°C.
- 2.17x1.77 inch.



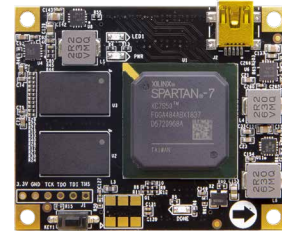
AC7100B | XC7A200T

- XC7A100T-2FGG484I.
- 1GB DDR3, 32bit.
- 16MB QSPI FLASH.
- Logic Cells 101,440.
- Slices 15,850.
- CLB Flip-Flops 126,800.
- Total Block RAM 4,860Kb.
- DSP Slices 240.
- High-speed GTP x4.
- Support PCIE 2.0.
- 100 Voltage Adjustable IOs.
- 180 IOs. 48 LVDS.
- Industrial Grade, -40°C-85°C.
- 2.17x1.77 inch.



AC7050B | XC7S50

- XC7S50-1FGGA484I.
- 1GB DDR3, 32bit.
- 16MB Flash.
- Logic Cells 52,160.
- Slices 8,150.
- Flip-Flops 65,200.
- DSP Slices 120.
- Block RAM 2,700kb.
- 114 IOs. 37 LVDS.
- 75 Voltage Adjustable IOs.
- Speed Grades -1.
- Industrial Grade, -40°C-85°C.
- 2.17x1.77 inch.



PANGOMICRO SoM Boards Selection Guide

SoM Board Mode	P12	P22	P25	P50G	P50	P100	P390
FPGA Series	Logos					Logos-2	Titan-2
FPGA Chip	PGL12G -6CFBG256	PGL22G -6CMBG324	PGL25G-6IM- BG324	PGL50G -6IFBG484	PGL50H -6IFBG484	PG2L100H -6IFBG676	PG2T390H -6IFFBG900
Working Temperature	0°C~ 70°C		, -40°C-85°C			, -40°C-85°C	
RAM	32MB SDRAM 16bit	256MB DDR3 16bit	256MB DDR3 16bit	256MB DDR3 16bit	1GB DDR3 32bit	1GB DDR3 32bit	8GB DDR4, 64bit
QSPI FLASH	8MB	16MB	16MB	8MB	16MB	32MB	16MB
Equivalent LUT4	12480	21,043	27,072	51,360	51,360	99,900	365400
Flip-Flops	15600	26,304	33,840	64,200	64,200	133,200	487200
Distributed RAM (Kbit)	85	70	242	544	544	1274	4712
Block RAM	30 (18Kbit)	48 (18Kbit)	60(18Kbit)	134 (18Kbit)	134 (18Kbit)	155 (36Kbit)	480 (36Kbit)
Total Block RAM	540	864	1080	2412	2412	5,580	17280
PLL / GPLL+PPLL	4	6	4	5	5	6+6	10+10
Extended IOs	106	114	136	172	195	190	276
Voltage Adjustable IOs	40	40	102	168	113	100	92
LVDS	20	20	68	84	55	48	46
PCI-Express	—	—	—	—	PCIE 2.0	PCIE 2.0	PCIE 3.0
APMs	20 (18*18)	30 (18*18)	40 (18*18)	84(18*18)	84(18*18)	240 (18*25)	840 (18*25)
HSSTs	—	—	—	—	4 * 6.375Gbps	8 * 6.6 Gbps	8x 13.125Gbps
ADCs	1	1	—	—	—	1	1
AESs	1	1	0	1	1	1	1
Board-to-board Connector	80pin x2		-	100pin x2	80pin x4	80pin x4	120pin x4
Size	55x45mm		75x64mm	60x60mm	55x45mm	60x60mm	80x60mm

P390 | PG2T390H

- PG2T390H-6IFBG900.
- 8GB DDR4, 64bit.
- 16MB QSPI FLASH.
- LUT6s 243600.
- Equivalent LUT4s 365,400.
- Flip-Flops 487200.
- Distributed RAM 4712Kbit.
- Total Block RAM 17280Kbit.
- GPLLs 10 + PPLLs 10.
- APMs 840 (18*25).
- Support PCIE 3.0, 8x 13.125Gbps HSST.
- 276 expansion I/Os.
- 92 Voltage Adjustable IOs.
- 46 LVDS.
- Industrial Grade, -40°C-85°C.
- 3.15x2.36 inch.



P100 | PG2L100H

- PG2L100H-6IFBG676.
- 1GB DDR3, 32bit, 32MB QSPI FLASH.
- LUT6s 66600.
- Equivalent LUT4 99,900.
- Flip-Flops 133,200.
- Distributed RAM 1274Kbit.
- Total Block RAM 5580Kbit.
- GPLLs 6 + PPLLs 6.
- APMs 240 (18*25).
- 8x 6.6Gbps HSST.
- 190 expansion I/Os.
- 100 Voltage Adjustable IOs.
- 48 LVDS.
- Speed Grades 6.
- Industrial Grade, -40°C-85°C.
- 2.36x2.36 inch.



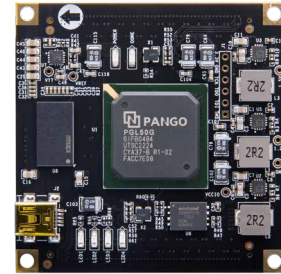
P50 | PGL50H

- PGL50H-6IFBG484.
- 1GB DDR3, 32bit, 16MB QSPI FLASH.
- LUT5s 42800.
- Equivalent LUT4 51,360.
- Flip-Flops 64,200.
- Distributed RAM 544Kbit.
- Total Block RAM 2412Kbit.
- GPLLs 5, APMs 84 (18*18).
- Support PCIE 2.0.
- 4x 6.375Gbps HSST.
- 195 expansion I/Os.
- 113 Voltage Adjustable IOs.
- 48 LVDS.
- Speed Grades 6.
- Industrial Grade, -40°C-85°C.
- 2.17x1.77 inch.



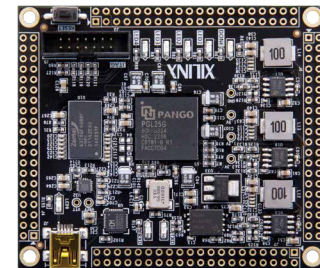
P50G | PGL50G

- PGL50G-61FBG484.
- 256MB DDR3, 16bit.
- 8MB QSPI FLASH.
- LUT5s 42800.
- Equivalent LUT4 51,360.
- Flip-Flops 64,200.
- Distributed RAM 544Kbit.
- GPLLs 5, APMs 84 (18*18).
- 172 Expansion I/Os.
- 168 Voltage Adjustable IOs.
- 48 LVDS.
- Industrial Grade, -40°C-85°C.
- 2.36x2.36 inch.



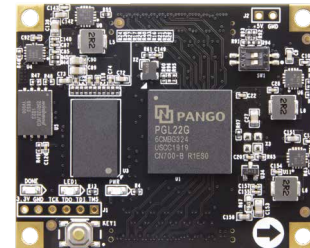
P25 | PGL25G

- PGL25G-61MBG324.
- 256MB DDR3, 16bit.
- 16MB QSPI FLASH.
- LUT5s 22,560.
- Equivalent LUT4 27,072.
- Flip-Flops 33,840.
- Distributed RAM 242Kbit.
- PLLs 4, APMs 40 (18*18)
- 136 Expansion I/Os.
- 102 Voltage Adjustable IOs.
- 68 LVDS.
- Industrial Grade, -40°C-85°C.
- 2.95x2.52 inch.



P22 | PGL22G

- PGL22G-6CMBG324.
- 256MB DDR3, 16bit.
- 16MB QSPI FLASH.
- LUT5s 17536.
- Equivalent LUT4 21043.
- Flip-Flops 26304.
- Distributed RAM 70Kbit.
- PLLs 6, APMs 30 (18*25).
- 114 expansion I/Os.
- 40 Voltage Adjustable IOs.
- 20 LVDS.
- Commercial Grade, 0°C-70
- 2.17x1.77 inch.



P12 | PGL12G

- PGL12G-6CFBG256.
- 32MB SDRAM, 16bit.
- 8MB QSPI FLASH.
- LUT5s 10400.
- Equivalent LUT4 12480.
- Flip-Flops 15600.
- Distributed RAM 85Kbit.
- PLLs 4, APMs 20 (18*18).
- 106 Expansion I/Os.
- 40 Voltage Adjustable IOs.
- 20 LVDS.
- Commercial Grade, 0°C-70°C.
- 2.17x1.77 inch.





PlayLogic Logic Analyzer P1

- 32 channels, 500MHz sampling rate, measuring bandwidth 80MHz.
- The total capacity of hardware storage is 4Gbit,
- The depth of hardware storage is 100M Sas.
- Maximum compression depth 10G Sas.
- Independent software, multiple operating system support, and multiple protocol support.
- All-metal shell, good shielding, Type-C interface communication power supply.

Product Model		P1		Number of channels	2
Measure Input Parameter	Number of channels	32	PWM Output Parameters	Output frequency range	0.1-20MHz
	Maximum sampling rate	500MHz@32CH		Periodic adjustment step	10ns
	Measurement broadband	80MHz		Pulse width adjustment step	5ns
	Minimum capture pulse width	6.25ns		Output voltage	+3.3 V
	Total hardware storage capacity	4Gbits		Output impedance	50Ω
	Hardware storage depth	100M Sas			
	Maximum compression depth	10G Sas			
	Input voltage range	-50V ~ +50V	Power Supply Parameters	Power supply interface	Type-C
	Equivalent input impedance	220kΩ, 12pF		Standby current	350mA
	Threshold voltage	Adjustable threshold: -4V~+4V Adjusting step: 0.01 V		Maximum working current	490mA



PlayLogic Logic Analyzer P2

- 16 channels, 500MHz sampling rate, measuring bandwidth 80MHz.
- The total capacity of hardware storage is 2Gbit.
- The depth of hardware storage is 100M Sas.
- Maximum compression depth 10G Sas.
- Independent software, multiple operating system support, and multiple protocol support.
- All-metal shell, good shielding, Type-C interface communication power supply.

Product Model		P2		Number of channels	2
Measure Input Parameter	Number of channels	16	PWM Output Parameters	Output frequency range	0.1-20MHz
	Maximum sampling rate	500MHz@16CH		Periodic adjustment step	10ns
	Measurement broadband	80MHz		Pulse width adjustment step	5ns
	Minimum capture pulse width	6.25ns		Output voltage	+3.3 V
	Total hardware storage capacity	2Gbits		Output impedance	50Ω
	Hardware storage depth	100M Sas			
	Maximum compression depth	10G Sas			
	Input voltage range	-50V ~ +50V	Power Supply Parameters	Power supply interface	Type-C
	Equivalent input impedance	220kΩ, 12pF		Standby current	200mA
Threshold voltage	Adjustable threshold: -4V~+4V Adjusting step: 0.01 V	Maximum working current		400mA	



PlayLogic Logic Analyzer P3

- 16 channels, 200MHz sampling rate, measuring bandwidth 40MHz.
- The total capacity of hardware storage is 1Gbit,
- The depth of hardware storage is 50M Sas.
- Maximum compression depth 10G Sas.
- Independent software, multiple operating system support, and multiple protocol support.
- All-metal shell, good shielding, Type-C interface communication power supply.

Product Model		P3		Number Of Channels	2
Measure Input Parameter	Number Of Channels	16	PWM Output Parameters	Output Frequency Range	0.1-20MHz
	Maximum Sampling Rate	200MHz@16CH		Periodic Adjustment Step	5ns
	Measurement Broadband	40MHz		Pulse Width Adjustment Step	5ns
	Minimum Capture Pulse Width	12.5ns		Output Voltage	+3.3 V
	Total Hardware Storage Capacity	1Gbits		Output Impedance	50Ω
	Hardware Storage Depth	50M Sas			
	Maximum Compression Depth	10G Sas			
	Input Voltage Range	-50V ~ +50V	Power Supply Parameters	Power Supply Interface	Type-C
	Equivalent Input Impedance	220kΩ, 12pF		Standby Current	130mA
	Threshold Voltage	Adjustable threshold: -4V~+4V Adjusting step: 0.01 V		Maximum Working Current	280mA



PlayLogic Logic Analyzer P4

- 16 channels, measuring bandwidth 20MHz.
- Sampling rate 100MHz@3CH, 50MHz@6CH, 32MHz@9CH, 25MHz@12CH, 16MHz@16CH.
- Directly use the computer memory to store sampling data.
- Independent software, multiple operating system support, and multiple protocol support.
- All-metal shell, good shielding, Type-C interface communication power supply.

Product Model		P4		Number Of Channels	2
Measure Input Parameter	Number Of Channels	16	PWM Output Parameters	Output Frequency Range	0.1-10MHz
	Maximum Sampling Rate	100MHz@3CH, 50MHz@6CH, 32MHz@9CH, 25MHz@12CH, 16MHz@16CH		Periodic Adjustment Step	10ns
	Measurement Broadband	20MHz		Pulse Width Adjustment Step	10ns
	Minimum Capture Pulse Width	20ns		Output Voltage	+3.3 V
	Total Hardware Storage Capacity	-		Output Impedance	50Ω
	Hardware Storage Depth	-			
	Maximum Compression Depth	-			
	Input Voltage Range	-50V ~ +50V	Power Supply Parameters	Power Supply Interface	Type-C
	Equivalent Input Impedance	220kΩ, 12pF		Standby Current	100mA
Threshold Voltage	Adjustable threshold: -4V~+4V Adjusting step: 0.01 V	Maximum Working Current		200mA	

Independent Software Multi-system Platform Support

Support WIN7/8/10, Linux, MAC OS operating systems, and display data in decimal, hexadecimal, and ASCII format



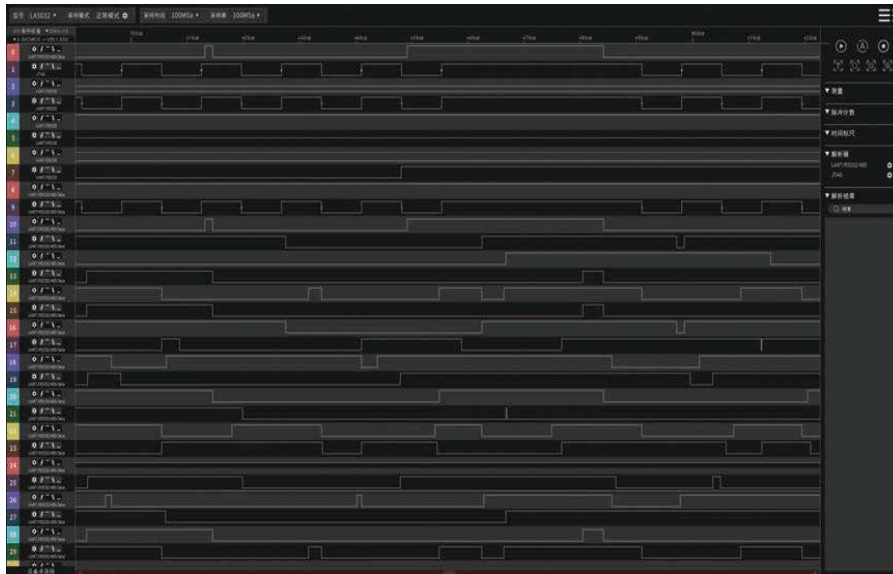
Windows



Linux



MAC



Ultra Multi-protocol Support

Support 40 standard protocol parsing, and sample data and analysis data can be exported in multiple formats

1-Wire	Atmel SWI	CAN	CAN_FD*	DHT11/12
DMX-512	DS18B20	HDMI CEC	I2C-EEPROM	I2C
I2S/PCM	IR-NEC	IR-JVC	IR-RC5	IR-RC6
IR-Sharp	IR-SIRC	ISO7816*	JTAG	LIN
LCD1602/12864		Manchester	MDIO	MIDI
MIPI-DSI LP*	Modbus	Parallel	Parallel 8080	Parallel 6800
PS/2 Keyboard		QSPI-Flash*	RGB-WS28xx	SDIO
SMBus	SPI	SWD	UART/RS232/485	
UN I/O	USB-PD*	USB LS/FS	Wiegand	

The orange band * indicates the protocol not supported by P3 and P4

FL1010

IO Port Expansion LPC FMC Board

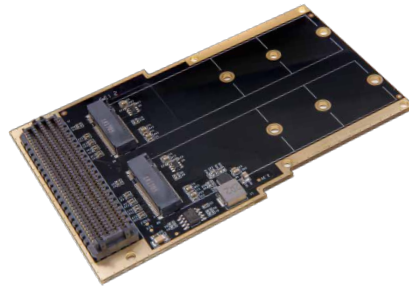
- FMC Interface: LPC.
- 40-pin Expansion Port: 2.
- SMA Interface: 6.
- Size: 3.01x2.72 inch.



FH1402

2 M.2 Interface HPC FMC Board

- M.2 Interface: 2 connection SSD NVME solid state hard disk, PCIe x4 supported, SATA not supported.
- FMC Interface: HPC Connector.
- Size: 4.37x2.72 inch.



FL9031

4 Gigabit Ethernet Port LPC FMC Board

- Chip Model: KSZ9031.
- Number of Ports: 4.
- Working Mode: RGMII.
- Working Rate: 10/100/1000Mbps Adaptive.
- Working Temperature: -40°C-85°C.
- Size: 3.01x2.72 inch.



FL2121

4 Gigabit Ethernet Port LPC FMC Board

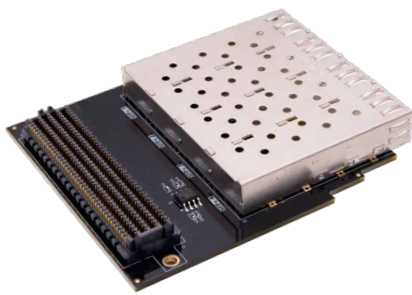
- Chip Model: JL2121.
- Number of Ports: 4.
- Working Mode: RGMII.
- Working Rate: 10/100/1000Mbps Adaptive.
- Working Temperature: -40°C-85°C.
- Size: 3.01x2.72 inch.



FH1223

4 SFP Fiber HPC FMC Board

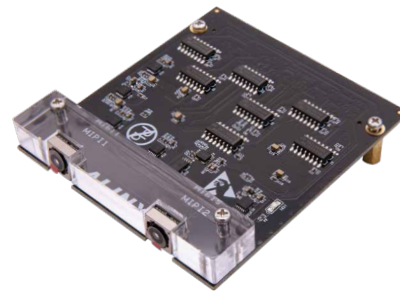
- SFP Interface: 4 SFP optical interface.
- Data communication send up to 10Gb/s.
- Data communication receives up to 10Gb/s.
- Size: 3.01x2.72 inch.



FL0214

Binocular Camera LPC FMC Board

- Photosensitive Chip: SONY IMX214.
- Resolution Ratio: 4208 *3120/4K/2K@30fps, 1080P@60fps.
- Output Format: RAW10/8, COMP8/6.
- Viewing Angle: 80.7°± 3° (Diag).
- Focus Mode: 1 Motor Motor Autofocus.
- Focusing Range: 10CM~Infinity.
- Size: 3.01x2.72 inch.



FL9134

HDMI 1080P LPC FMC Board

- Chip model: input Sil9134, output Sil9013
- Resolution: Input up to 1920 support* 1080@60fps ,
- Output up to 1920* 1080@60fps
- Data width: 24bit RGB/YCbCr 4:4:4:4
- Parameter configuration: I2C interface configuration
- Working temperature: -0°~70°
- Structural size: 3.01x2.72 inch.



FH1159

HDMI 4K Input/Output HPC FMC Board

- Chip Model: Input TMDS1811RGZT, Output SN75DP159.
- Resolving Power: Input up to 4K@60fps, Output up to 4K@60fps.
- Data Rate: Up to 6Gbps.
- Parameter Configuration: I2C interface configuration.
- Size: 3.01x2.72 inch.



FL2971

3G-SDI 1080P Transmission LPC FMC Board

- Chip Model: GS2971A-IBE3, GS2972-IBE3.
- Resolution Ratio: 1 SDI input and 1 SDI output, 1080P@60fps; Support audio input and output.
- Signal Format: SD/HD/3G SDI rates.
- SDI Interface: RF coaxial connector (BNC).
- Size: 3.01x2.72 inch.



FH1219

12G-SDI 4K Transmission HPC FMC Board

- Chip Model: GS12190.
- Resolution Ratio: Up to 4K@60fps Video input or output, Support audio input and output.
- Signal Format: Supporting SD/HD/3G/6G/12G SDI rates.
- SDI Interface: 4 HDBNC SDI.
- Size: 3.01x2.72 inch.



FL1404

4 MIPI Camera Interface LPC FMC Board

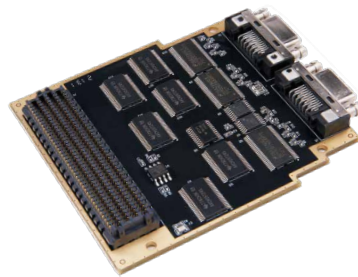
- MIPI Interface: 4 LANE*4 FPC interface,
- Transfer Rate: Up to 2.5Gbps
- Size: 3.01x2.72 inch.



FH1226

CameraLink Acquisition HPC FMC Board

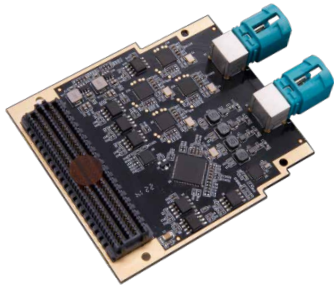
- Channel Chip: DS90CR288A (3 LVDS, 28bit)
- Support Mode: Base, Medium, Full.
- Camera Link Interface: 2.
- Throughput Rate: Up to 2.38Gbps.
- Bandwidth: 297.5 Mbytes/sec.
- Clock Conversion: Support 20~85MHz.
- Size: 3.01x2.72 inch.



FL9295

4 GSML Input/Output HPC FMC Board

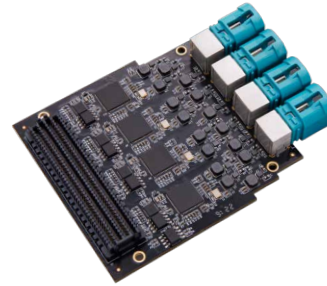
- Chip Model: MAX9295A,MAX96712.
- Interface: Vehicle grade, Z Code Fakra Connector, Supports up to 4 2MP GMSL2 cameras or 1 8MP camera; Supports up to 4 channels of GMSL2 video output, supports 2MP/4MP 60fps or 8MP 30fps
- Format: RAW8/10/12/14/16/20, RGB565/666/888, YUV422 8/10bit video image
- Size: 3.01x2.72 inch.



FH9712

16 GSML Input/Output HPC FMC Board

- Chip Model: MAX96712.
- Interface: Vehicle grade, Z Code Mini Fakra Connector, Supports up to 16 2MP GMSL2 cameras and 4 8MP GMSL2 cameras
- Format: RAW8/10/12/14/16/20, RGB565/666/888, YUV422 8/10bit video image
- Size: 3.01x2.72 inch.



FL2514

4 14bit 250MSPS AD LPC FMC Board

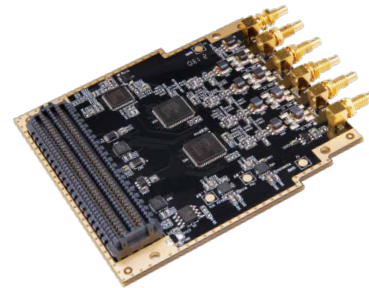
- Chip Model: ZGAD250D14.
- Number of Digits: 14bit.
- Number of Channels: 4.
- Sampling Rate: 250MSPS.
- Ad Analog Signal Input Range: 1.5V P-P.
- Analog Signal Input Interface: SSMC interface.
- Configure Interface: SPI interface.
- Size: 3.01x2.72 inch.



FL9613

4 12bit 250MSPS AD LPC FMC Board

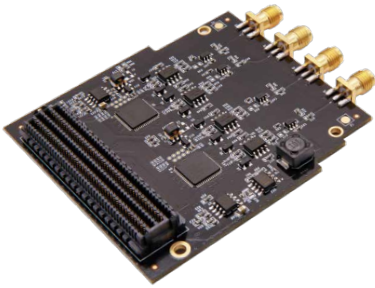
- Chip Model: AD9613.
- Number of Digits: 12bit.
- Number of Channels: 4.
- Sampling Rate: 250MSPS.
- Ad Analog Signal Input Range: 1.7V P-P.
- Analog Signal Input Interface: SSMC interface.
- Configure Interface: SPI interface.
- Size: 3.01x2.72 inch.



FL9627

4 12bit 250M AD LPC FMC Board

- Chip Model: AD9627.
- Number of Digits: 12bit.
- Number of Channels: 4.
- Sampling Rate: 20MSPS~125MSPS.
- Communication Bus: LVDS.
- Input Range: -5V~5V.
- Size: 3.01x2.72 inch.



FL9781

4 14bit 500M DA LPC FMC Board

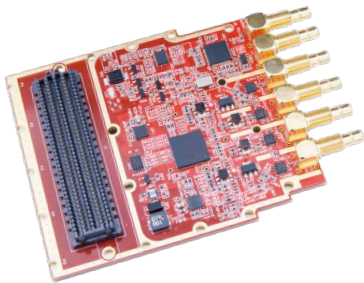
- Chip Model: AD9781.
- Number of Digits: 14bit.
- Number of Channels: 4.
- Sampling Rate: 500MSPS.
- Communication Bus: LVDS.
- Size: 3.01x2.72 inch.



FL6000

AD9361 RF Module LPC FMC Board

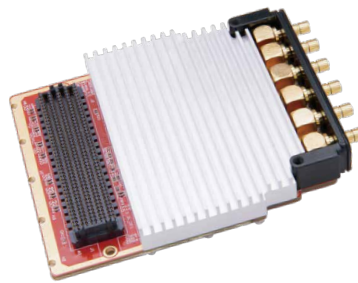
- Chip Model: AD9361.
- Support Mode: 2x 2T2R.
- Digits: 12bit ADC, 12bit DAC.
- Overlay Band: 70MHz~6GHz.
- Bandwidth: Send up to 56MHz .
- Power Amplifier: 14dB@2GHz , up to 10dBm output.
- Size: 3.01x2.72 inch.



FH7000

AD9371 RF Module HPC FMC Board

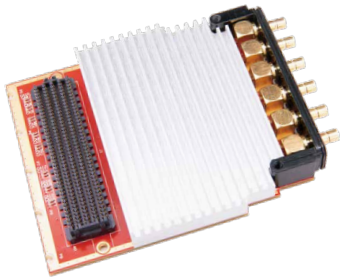
- Chip Model: AD9371.
- Support Mode: 2x 2T2R.
- Digits: 16bit ADC , 14bit DAC.
- Overlay Band: 300MHz~6GHz.
- Bandwidth: Send up to 250MHz and receive up to 100MHz.
- Power Amplifier: 14dB@2GHz , up to 10dBm output.
- Size: 3.01x2.72 inch.



FH9000

AD9009 RF Module HPC FMC Board

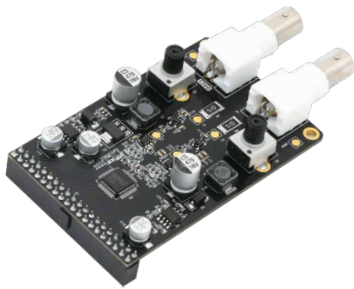
- Chip Model: AD9009.
- Support Mode: 2x 2T2R.
- Digits: 16bit ADC, 14bit ADC.
- Overlay Band: 75MHz~6GHz.
- Bandwidth: Send up to 450MHz and receive up to 200MHz.
- Power Amplifier: 14dB@2GHz, Up to 10dBm output.
- Size: 3.01x2.72 inch.



AN9767

Dual Channel DA Module

- Chip Model: AD9767.
- Number of Bits: 14bit.
- Number of Channels: 2 Channels.
- Sampling Rate: Up to 125MSPS.
- Output Range: -5V to 5V.
- Working Temperature: -40°C to 85°C.
- Size: 3.19x2.01 inch.



AN9238

AD Acquisition Module

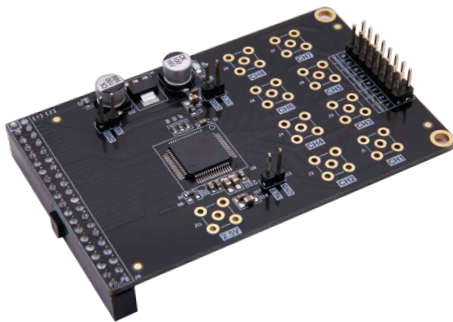
- Chip Model: AD9238.
- Number of Bits: 12bit.
- Number of Channels: 2 Channels.
- Sampling Rate: Up to 65MSPS.
- Input Range: -5V to 5V.
- Working Temperature: -40°C to 85°C.
- Size: 3.19x2.01 inch.



AN706

AD Acquisition Module

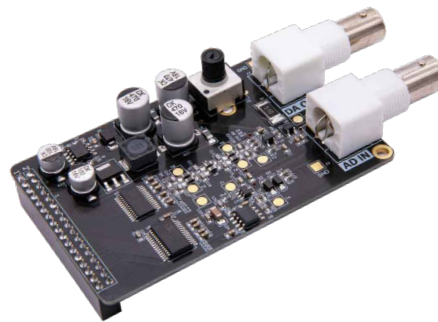
- Chip Model: AD7606.
- Number of Bits: 16bit.
- Number of Channels: 8 Channels.
- Sampling Rate: Up to 200KSPS.
- Input Range: -5V to 5V.
- Working Temperature: -40°C to 85°C.
- Size: 3.19x2.01 inch.



AN108

AD/DA Module

- AD Chip: AD9280, 8bit, 32MSPS.
- DA Chip: AD9708, 8bit, 125MSPS.
- Voltage Range: -5V ~ + 5V.
- Working Temperature: -40°C to 85°C.
- Size: 3.19x2.01 inch.



AN9134

HDMI Output Module

- Chip Model: SiI9134.
- Resolution: Maximum Output 1920 * 1080 @ 60fps.
- Data format: RGB888 24bit
- Working Temperature: 0°C to 70°C.
- Size: 2.01x1.97 inch.



AN5640

5MP Camera Module

- Chip Model: OV5640.
- Image Format: RAW RGB, RGB565/555/444, CCIR656, YUV422/420, YCbCr422.
- Resolution: RGB format 1080p @ 15fps, 720p @ 30fps.
- Lens Parameters: 5MP, Monitoring Angle 80-96 Degrees.
- Working Temperature: 0°C to 50°C.
- Size: 1.38x0.94 inch.



AN5641

5MP MIPI Camera Module

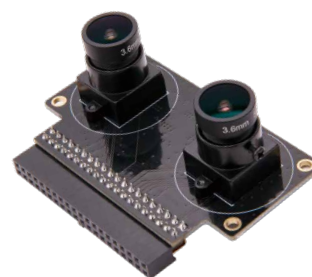
- Chip Model: OV5640.
- Resolution: QSXGA(2592x1944), 1080P, 1280x960, VGA(640x480).
- Image Format: RAW RGB, RGB565/555/444, CCIR656, YUV422/420, YCbCr422.
- Lens Parameters: 5MP, Monitoring Angle 80-96 Degrees.
- Working Temperature: 0°C to 50°C.
- Size: 1.38x0.94 inch.



AN5642

Binocular Camera Module

- Chip Model: OV5640.
- Resolution: QSXGA(2592x1944), 1080P, 1280x960, VGA(640x480).
- Image Format: RAW RGB, RGB565/555/444, CCIR656, YUV422/420, YCbCr422.
- Lens Parameters: 5MP, Monitoring Angle 80-96 Degrees.
- Working Temperature: 0°C to 50°C.
- Size: 2.76x1.54 inch.



AN970

7" Capacitive Touch Screen Module

- Touch screen: 5-point capacitive touch screen.
- Data format: RGB888 24bit.
- Resolving Power: 800*3(RGB)*480.
- Display Area: 6.00x3.60 inch.
- Working Temperature: -10°C to 60°C.
- Size: 6.50x4.09 inch.



AN430

4.3" LCD Screen Module

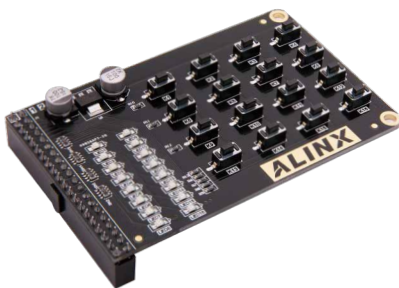
- Data format: RGB888 24bit.
- Display Pixels: 480 (RGB) * 272.
- Display Area: 3.74 inch * 2.12 inch.
- Working Temperature: -20°C to 70°C.
- Module Interface: 40-pin 0.1 inch spacing female header.
- Size: 4.72x2.68 inch.



AN0404

Matrix Keyboard Module

- Number of Keys: 4x4 Matrix Key, 16 keys.
- Number of LEDs: 16 Independent LEDs.
- Working Temperature: -25°C to 85°C.
- Module Interface: 40-pin 0.1 inch spacing female header.
- Size: 3.19x2.01 inch.



AN8211

Gigabit Ethernet Module

- PHY Chip: RTL8211.
- Network Port Speed: 10M / 100M / 1000M Adaptive.
- Interface Mode: GMII by default, Can be set to RGMII.
- Transmission Rate: Up to 900Mbps.
- Working Temperature: 0°C to 70°C.
- Size: 3.19x2.01 inch.



AN831

Audio Processing Module

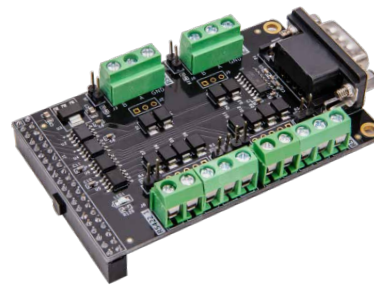
- Chip Model: WM8731.
- Interface Function: Microphone Input, Audio Input, Audio Output.
- Working Temperature: -25°C to 85°C.
- Size: 3.19x2.01 inch.



AN3485

RS232/422/485 Module

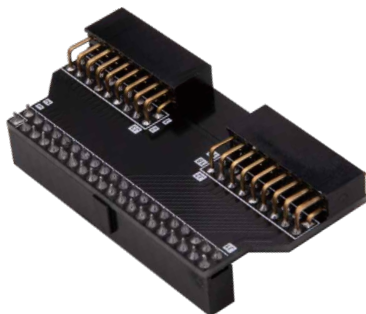
- Chip Model: MAX3232 / MAX3485 / MAX3490.
- Number of Channels: 1-channel RS232, 2-channel RS422, 2-channel RS485.
- Working Temperature: -40°C to 85°C.
- Size: 3.19x2.01 inch.



AN122

DVP Interface Camera Transfer Module

- Camera Interface: DVP connector.
- Number of Channels: 2.
- Working Temperature: -25°C to 85°C.
- Size: 2.36x1.18 inch.



The logo for ALINX, featuring the word "ALINX" in a bold, italicized, sans-serif font. The letters are white with a slight shadow effect, set against a dark orange background.

ALINX

FPGA Solution Provider



Alinx Electronic Technology (Shanghai) Co., Ltd

Hotline: +86-021-67676997

3rd floor, Building 1, No. 1 Caosong Road, Xinqiao Town,
Songjiang District, Shanghai, China