

# 3U CompactPCI/PlusIO Boards

	Type	CPU	CompactPCI / PlusIO / Serial/ Express	Memory max.	Interfaces	Onboard FPGA	Local Extensions	Software	Applications
<b>F19P</b>	SBC	Intel Core 2 Duo up to SP9300, 2.26 GHz (64-bit CPU)	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot PICMG 2.0 or CompactPCI PlusIO PICMG 2.30 or stand-alone	4 GB DDR3 DRAM (soldered), CompactFlash, microSD card	Standard front I/O: VGA, 2 Gb Ethernet, 2 USB Standard rear I/O: 4 PCIe, 4 USB, 4 SATA, 1 Gb Ethernet Other I/O (onboard, side card): SATA, SDVO, HD audio, USB, UART etc.		I/O extension cards: F600..F608 see below	Windows, Linux	Industrial automation, robotics, instrumentation, multimedia
<b>F18</b>	SBC	Intel Core 2 Duo up to T7500, 2.2 GHz (64-bit CPU)	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot or 1 CompactPCI Express slot or stand-alone	4 GB DDR2 DRAM (soldered), CompactFlash	PCIe 6 x1 links, 2 SATA, 2 Gigabit Ethernet, 8 USB 2.0, 1 VGA, 1/2 DVI, audio (via front, extension cards or rear I/O)		I/O extension cards: F600..F608 see below	Windows, Linux	Industrial automation, robotics, instrumentation, multimedia
<b>F17</b>	SBC	Intel Core 2 Duo up to T7400, 2.16 GHz (64-bit CPU)	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot or 1 CompactPCI Express slot or stand-alone	4 GB DDR2 DRAM (soldered), CompactFlash	PCIe 6 x1 links, 2 SATA, 2 Gigabit Ethernet, 8 USB 2.0, 1 VGA, 1/2 DVI, audio (via front, extension cards or rear I/O)		I/O extension cards: F600..F608 see below	Windows, Linux, VxWorks, QNX	Industrial automation, robotics, instrumentation, multimedia
<b>F15</b>	SBC	Intel Core Duo up to T2500, 2 GHz	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot or 1 CompactPCI Express slot or stand-alone	4 GB DDR2 DRAM (soldered), CompactFlash	PCIe 6 x1 links, 2 SATA, 2 Gigabit Ethernet, 8 USB 2.0, 1 VGA, 1/2 DVI, audio (via front, extension cards or rear I/O)		I/O extension cards: F600..F608 see below	Windows, Linux, VxWorks, QNX	Industrial automation, robotics, instrumentation, multimedia
<b>F14</b>	SBC	Up to Pentium M 760, 2 GHz Celeron M 373, 1 GHz	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot or 1 CompactPCI Express slot or stand-alone	1 GB DDR2 DRAM (soldered), CompactFlash	PCIe 4 x1 links, 2 SATA, 2 Gigabit Ethernet, 8 USB 2.0, 1 VGA, 1/2 DVI, audio (via front, extension cards or rear I/O)		I/O extension cards: F600..F608 see below	Windows, Linux, VxWorks	Industrial automation, robotics, instrumentation, multimedia
<b>F608</b>	Side Card RAID F14..F19P		4HP or 8HP, connected to CompactPCI for power supply		4/8 SATA ports at rear, 2 COMs at front via SA-Adapters		2.5" SATA drive	Depending on SBC	Industrial automation, robotics, instrumentation
<b>F606</b>	Side Card Gb Ethernet F14..F19P		4 HP or 8 HP, connected to CompactPCI for power supply		2 Gb Ethernet with Lemo connectors, 1 COM (option 2) via SA-Adapter (RS232/422/485, isolated/not isolated)		2.5" SATA drive	Depending on SBC	Transportation

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<b>F605</b>	Side Card PMC/XMC F14..F19P	4 HP or 8 HP, connected to CompactPCI for power supply		1 PMC or 1 XMC slot		2.5 SATA drive optional	Depending on PMC/XMC	Industrial automation, robotics, instrumentation
<b>F604</b>	Side Card FireWire F14..F19P	4 HP, connected to CompactPCI for power supply		1 IEEE 1394, 1 DVI-D, 1 HD audio, 1 COM		2.5" SATA drive	Windows	Industrial automation, robotics, instrumentation
<b>F603</b>	Side Card USB/COM F14..F19P	4 HP, connected to CompactPCI for power supply		2 USB 2.0, 1 COM		2.5" SATA drive	Windows, Linux, VxWorks, QNX	Industrial automation, robotics, instrumentation
<b>F602</b>	Side Card CompactPCI Express F14..F18	4HP, 1 CompactPCI Express slot with 4 x1 PCIe links		4 PCI Express links x1, 1 USB, 1 DVI, 1 COM via SA- Adapter (RS232/422/485, isolated/not isolated)		2.5" SATA drive	Windows	Industrial automation, robotics, instrumentation
<b>F601</b>	Side Card Multimedia F14..F19P	4 HP or 8 HP, connected to CompactPCI for power supply		1..2 DVI, 1 audio, 0..1 COM via SA-Adapter (RS232/422/485, isolated/not isolated)		2.5" SATA drive	Windows, Linux, VxWorks, QNX	Industrial automation, robotics, instrumentation
<b>F600</b>	Side Card Legacy I/O F14..F19P	4 HP, connected to CompactPCI for power supply		1..4 UARTs Via SA-Adapters (RS232/422/485, isolated/not isolated)		2.5" SATA drive	Windows, Linux, VxWorks, QNX	Industrial automation, robotics, instrumentation
<b>F700</b>	XMC/PMC Carrier	4HP, 1 CompactPCI Express slot				1 XMC slot (2 links x1/4/8), or 1 PMC slot (32-bit, 64-bit, PCI-X up to 133MHz)	XMC/PMC driver software	Telecom, mobile computing, industrial automation, robotics, medical
<b>F13</b>	SBC	PowerPC MPC8540/ 800MHz	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot	2 GB DDR DRAM (SO-DIMM), NAND Flash	2 Gigabit Ethernet, 1 Fast Ethernet, 1 COM	Altera Cyclone for user-defined I/O functions	Linux, VxWorks, QNX	Telecom, mobile computing, industrial automation, robotics, medical

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<b>F12N</b>	SBC	PowerPC MPC5200B	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot	256MB onboard DDR SDRAM, 2MB NVRAM, NAND Flash, 2MB SRAM, 16MB graphics RAM	2 Fast Ethernet, 1 COM, 1 USB	Altera Cyclone for user-defined I/O functions	FPGA for custom I/O	Linux, VxWorks, QNX	Transportation, mobile computing, industrial automation, robotics, medical
<b>F11S</b>	SBC	Intel Atom	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot	2 GB DDR2 DRAM, 2 MB SRAM, CompactFlash, microSD card	1 VGA, 1 PS/2, 2 USB, 1 Gigabit and one Fast Ethernet on RJ45, 1 UART	Altera Cyclone III for user-defined I/O functions	FPGA for custom I/O	Windows, Linux	Transportation, industrial automation, medical
<b>F50P</b>	SBC	PowerPC MPC8548	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot PICMG 2.0 or PICMG 2.30	2 GB (ECC) DDR2 SDRAM, 128 KB FRAM, 2 MB SRAM, 16 GB SSD Flash	3 Gigabit Ethernet, 6 USB, 2 SATA, up to 62 user-defined I/O lines	Altera Arria for user-defined I/O functions optional	FPGA for custom I/O optional	Linux, VxWorks, INTEGRITY	Industrial automation, robotics, avionics, mobile computing, medical
<b>F50C</b>	SBC in CCA frame for conduction cooling	PowerPC MPC8548	32-bit/33-MHz CompactPCI system slot, 1 CompactPCI slot	2 GB (ECC) DDR2 SDRAM, 128 KB FRAM, 2 MB SRAM, 16 GB SSD Flash	3 Gigabit Ethernet, 6 USB, 2 SATA, up to 62 user-defined I/O lines (rear)	Altera Arria for user-defined I/O functions	FPGA for custom I/O	Linux, VxWorks, INTEGRITY	Industrial automation, robotics, avionics, mobile computing, medical
<b>F302</b>	Ethernet Switch	Managed	32-bit/33-MHz, 1 CompactPCI slot (12/16 HP front panel)		Up to 8 Fast Ethernet (front) 1 Ethernet controller (rear J1)			Driver software not necessary	Transportation, mobile computing, industrial automation
<b>F301</b>	Ethernet Switch	Unmanaged	32-bit/33-MHz, 1 CompactPCI slot (8 HP front panel)		Up to 8 Fast Ethernet (front) 1 Ethernet controller (rear J1) Opt.: 1 Fast Ethernet (rear J2)			Driver software not necessary	Transportation, mobile computing, industrial automation
<b>F216</b>	Octal UART (16550)		32-bit/33-MHz, 1 CompactPCI slot		8x RS232/422/485, hardware-configurable			Windows, Linux, VxWorks, QNX	Transportation, mobile computing, industrial automation
<b>F215</b>	Universal Interface Board	Nios Soft Core optional	32-bit/33-MHz, 1 CompactPCI slot	2 MB Flash, 16 MB DRAM optional	Standard configuration with 2x CAN, 2x UARTs, 1x 8-bit GPIO for use with SA-Adapters	Altera Cyclone III for user-defined I/O functions	FPGA for custom I/O	Linux, VxWorks, Windows, QNX	Transportation, mobile computing, industrial automation

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<b>F213</b>	PMC Carrier	32-bit/33-MHz, 1 CompactPCI slot		32-bit/33-MHz or 66-MHz PMC or PCI mini card, type III (A and B)		1 PMC card at front or 1 PCI mini card at front via 2 SMA for HF applications	Depending on PMC card / PCI mini card	Transportation, mobile computing, industrial automation
<b>F212</b>	PCI Express MiniCard Carrier	32-bit/33-MHz, 1 CompactPCI slot		PCI Express MiniCard or Express Card 34 or Express Card 54		Up to 2 cards at front via 4 SMA for HF applications (GPS, GSM, WLAN, UMTS, HSDPA)	Depending on PCIe MiniCard/ Express Card	Transportation, mobile computing, industrial automation
<b>F212U</b>	Triple USB Interface	32-bit/33-MHz, 1 CompactPCI slot		3 USB 2.0 at front			Windows, Linux, Vxworks	Transportation, mobile computing, industrial automation
<b>F211</b>	Fast Ethernet Interface	32-bit/33-MHz, 1 CompactPCI slot		4 full/half-duplex 10Base-T or 100Base-TX Ethernet			Windows, Linux, VxWorks, QNX	Transportation, mobile computing, industrial automation
<b>F210</b>	GSM/GPS Interface	32-bit/33-MHz, 1 CompactPCI slot		GSM-R (Rail) EGSM 900 / GSM 1800, GPS according to NMEA 0183, 2 UARTs	Altera Cyclone II for user-defined I/O functions		Windows, Linux, VxWorks	Transportation, mobile computing, industrial automation
<b>F209L</b>	WLAN Interface	32-bit/33-MHz, 1 CompactPCI slot		1 WLAN interface on 2 Reverse SMA connectors, IEEE 802.11b			Windows, Linux	Transportation, mobile computing, industrial automation
<b>F209</b>	PC Card Carrier	32-bit/33-MHz, 1 CompactPCI slot		CardBus (32-bit), PCMCIA/PC Card (16-bit), Type I, II and III		Up to 2 PC Cards at front	Depending on PC Card	Mobile computing, industrial automation
<b>F207</b>	PCI-104 Carrier	32-bit/33-MHz, 1 CompactPCI slot (8 HP front panel) with one PCI-104 module		PCI-104		Up to 4 PCI-104 modules	PCI-104 driver software	Transportation, mobile computing, industrial automation
<b>F206I</b>	PC/104 Carrier	32-bit/33-MHz, 1 CompactPCI slot (8 HP front panel)		PC/104		1 PC/104 slot, PCI- to-ISA bridge	PCI-104 driver software	Transportation, mobile computing, industrial automation

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<b>F206N</b>	Slave SBC	Nios Soft Core	32-bit/33..66-MHz 1 CompactPCI slot	32 MB SDRAM, 2 MB Flash	1 debug interface	Altera Cyclone for user-defined I/O functions	FPGA for custom I/O	Nios sample designs, development package, update tools	Transportation, mobile computing, industrial automation
<b>F206</b>	Octal UART (16450)	Nios Soft Core optional	32-bit/33..66-MHz 1 CompactPCI slot, 3.3V VIO	2 MB Flash, 16 MB DRAM	Standard configuration with 8x UARTs for use with SA-Adapters (RS232/422/485, isolated or not)	Altera Cyclone for user-defined I/O functions	FPGA for custom I/O	Linux, VxWorks, Windows, QNX	Transportation, mobile computing, industrial automation
<b>F205</b>	M-Module Carrier		1 CompactPCI slot				2 M-Module slots	M-Module driver software	Industrial automation, instrumentation
<b>F204</b>	M-Module Carrier		1 CompactPCI slot				1 M-Module slot	M-Module driver software	Industrial automation, instrumentation
<b>F203</b>	PC-MIP Carrier		1 CompactPCI slot				3 PC-MIP slots	PC-MIP driver software	Industrial automation, instrumentation