

## 3U CompactPCI Serial Boards



### CPU Boards

	Type	CPU	Performance Scalability	CompactPCI Serial Slots	Memory max.	Interfaces	Software
<b>G25A</b>	SBC	Intel Xeon D-1500, up to 16 cores (64-bit CPU), Intel technology: Hyperthreading, VT, Turbo Boost	<b>Low end:</b> 2 cores, 19 W typ. <b>High end:</b> 16 cores, 45 W typ.	System slot or peripheral slot	32 GB DDR4 DRAM (soldered), microSD card	<b>Front:</b> Two 10 Gb Ethernet, one Gb Ethernet, one USB 3.0 <b>Rear:</b> Four PCIe x1, two PCIe x4, two PCIe x8, two USB 3.0, six SATA, four Gb Ethernet	Windows, Linux
<b>G23</b>	SBC	Intel Core i7, up to i7-4700EQ, 2.4 GHz (64-bit CPU), Intel technology: Hyperthreading, VT, AMT, Turbo Boost	<b>Low end:</b> 1.5 GHz, 25 W typ. <b>High end:</b> 2.4 GHz, 47 W typ.	System slot or peripheral slot	16 GB DDR3 DRAM (soldered), microSD card	<b>Front:</b> Two DisplayPort, two Gb Ethernet, two USB 3.0 <b>Rear:</b> Five PCIe x1, two PEG x8, eight USB 2.0, two USB 3.0, six SATA, one DisplayPort Optional (mezzanine card): up to eight Gb Ethernet	Windows, Linux
<b>G22</b>	SBC	Intel Core i7, up to i7-3615QE, 2.3 GHz (64-bit CPU), Intel technology: Hyperthreading, VT, AMT, Turbo Boost	<b>Low end:</b> 1.5 GHz, 17 W typ. <b>High end:</b> 2.3 GHz, 45 W typ.	System slot or peripheral slot	8 GB DDR3 DRAM (soldered), microSD card	<b>Front:</b> Two DisplayPort, two Gb Ethernet, two USB 2.0 <b>Rear:</b> Five PCIe x1, two PEG x8, four USB 3.0, Four USB 2.0, six SATA, one DisplayPort Optional (mezzanine card): up to eight Gb Ethernet	Windows, Linux
<b>G52A</b>	SBC	Freescale QorIQ T4240, 12 cores	1.5 to 1.8 GHz	System slot or peripheral slot	12 GB DDR3 DRAM (soldered), microSD card	<b>Front:</b> Two 10 Gb Ethernet, one Gb Ethernet, One USB 2.0, One RS232 configuration port (USB 2.0) <b>Rear:</b> Three Gb Ethernet, one USB 2.0, two SATA, One PCIe x2, three PCIe x4	Linux

**Compare Chart**

## 3U CompactPCI Serial Boards



### Peripheral Boards

	Type	CPU	CompactPCI Serial Slots	Memory max.	Interfaces	Software
<b>G229</b>	Serial I/O Extension Board		Peripheral slot		<b>Front:</b> Three USB 3.0, one RS232, one RS422/485  <b>Onboard:</b> One M.2 SSD	Linux, Windows
<b>G227</b>	PCI Express MiniCard Carrier		Peripheral slot		<b>Front:</b> Four SMA for HF applications (GPS, GSM, WLAN, UMTS, HSPA)  <b>Onboard:</b> Three PCI Express MiniCard slots	Depending on PCIe MiniCard
<b>G233</b>	Diagnostic Board with Front Display	MCU: STM32 ARM Cortex-M7	Peripheral slot	8 MB Flash, 2 MB SRAM	<b>Front:</b> OLED display, two control buttons, eight user LEDs	Windows, Linux
<b>G232</b>	Multi-Display Controller	GPU: AMD E6465	Peripheral slot	2 GB integrated graphics RAM	<b>Front:</b> Three DisplayPort 1.2 interfaces One DisplayPort 1.1a interface	Windows, Linux
<b>G214</b>	Multi-Display Controller	GPU: AMD E6760	Peripheral slot	1 GB integrated graphics RAM	<b>Front:</b> Four DisplayPort 1.2 interfaces (+ 2 DisplayPort 1.1a interfaces optional via side-board connector)	Windows Vista/7, Linux
<b>G212</b>	PCI Express MiniCard Carrier		Peripheral slot		<b>Front:</b> Four SMA for HF applications (GPS, GSM, WLAN, UMTS, HSDPA)  <b>Onboard:</b> Two PCI Express MiniCards or Express Card 34 or Express Card 54 slots	Depending on PCIe MiniCard/ Express Card
<b>G211</b>	Quad Gigabit Ethernet Interface Board		Peripheral slot		<b>Front:</b> Four full/half-duplex 1000BASE-T Ethernet on RJ45 or M12-A connectors	Windows, Linux, QNX, VxWorks
<b>G211F</b>	Quad Fiber Optics Interface Board		Peripheral slot		<b>Front:</b> Four optical transceiver channels 1000BASE-SX	Windows, Linux
<b>G211X</b>	Quad Gigabit Ethernet Interface Board		Peripheral slot		<b>Front:</b> Four full/half-duplex 1000BASE-T Ethernet on M12-X connectors	Windows, Linux, QNX, VxWorks

**Compare Chart**

## 3U CompactPCI Serial Boards



	Type	CPU	CompactPCI Serial Slots	Memory max.	Interfaces	Software
<b>G215</b>	Universal Interface Board	Nios Soft Core optional	Peripheral slot	4 MB Flash, Up to 64 MB DRAM	<b>Standard configuration:</b> Two CAN, two UARTs, one 8-bit GPIO for use with SA-Adapters (customizable via onboard FPGA)	Linux, VxWorks, Windows, QNX
<b>G201</b>	USB 3.0 Interface		Peripheral slot		<b>Front:</b> Four USB 3.0	Windows, Linux
<b>G204</b>	M-Module Carrier		Peripheral slot		<b>Front:</b> One M-Module slot	M-Module driver software
<b>G213</b>	XMC/PMC Carrier		Peripheral slot		<b>Onboard:</b> One XMC slot (two links x4), or one PMC slot (32-bit, 64-bit, PCI-X up to 133MHz)	Depending on XMC/PMC card
<b>G403</b>	Binary I/O for Railways		Peripheral slot		<b>Front:</b> Four spring cage terminal blocks, 16 bidirectional binary I/Os	Driver software not necessary
<b>G504</b>	SSD Shuttle		Peripheral Slot		<b>Onboard:</b> One 2.5" NVMe U.2 SSD or one NVMe M.2 SSD	Driver software not necessary
<b>G503</b>	HDD/SSD Shuttle & RAID Controller		Peripheral slot		<b>Onboard:</b> Two 2.5" SATA HDD or SSD	Driver software not necessary
<b>G501</b>	HDD/SSD Shuttle		Peripheral slot		<b>Onboard:</b> One 2.5" SATA HDD or SSD	Driver software not necessary

### Ethernet Switch Boards

For an overview of Ethernet switch boards, please have a look at the [product comparison for Industrial Ethernet Switches](#).

**Compare Chart**