

## 3U CompactPCI Serial 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.	CompactPCI Serial system slot or CompactPCI Serial peripheral slot	32 GB DDR4 DRAM (soldered), microSD card	<b>Standard front I/O:</b> 2 10 Gb Ethernet, 1 Gb Ethernet, 1 USB 3.0 <b>Standard rear I/O:</b> 28 PCIe, 2 USB 3.0, 6 SATA, 4 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.	CompactPCI Serial system slot or CompactPCI Serial peripheral slot	16 GB DDR3 DRAM (soldered), microSD card	<b>Standard front I/O:</b> 2 DisplayPort, 2 Gb Ethernet, 2 USB 3.0 <b>Standard rear I/O:</b> 5 PCIe x1, 2 PEG x8, 8 USB 2.0, 2 USB 3.0, 6 SATA, 1 DisplayPort <b>Optional rear I/O</b> (mezzanine card): up to 8 Gigabit 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.	CompactPCI Serial system slot or CompactPCI Serial peripheral slot	8 GB DDR3 DRAM (soldered), microSD card	<b>Standard front I/O:</b> 2 DisplayPort, 2 Gb Ethernet, 2 USB 2.0 <b>Standard rear I/O:</b> 5 PCIe x1, 2 PEG x8, 4 USB 3.0, 4 USB 2.0, 6 SATA, 1 DisplayPort <b>Optional rear I/O</b> (mezzanine card): up to 8 Gigabit Ethernet	Windows, Linux
<b>G20</b>	SBC	Intel Core i7, up to i7-610E, 2.53 GHz (64-bit CPU), Intel technology: Hyperthreading, VT, AMT, Turbo Boost	<b>Low end:</b> 1.06 GHz, 18 W typ. <b>High end:</b> 2.53 GHz, 35 W typ.	CompactPCI Serial system slot	4 GB DDR3 DRAM (soldered), CompactFlash, microSD card	<b>Standard front I/O:</b> 2 DisplayPort, 2 Gb Ethernet, 2 USB 2.0 <b>Standard rear I/O:</b> 5 PCIe x1, 2 PEG x8, 8 USB 2.0, 6 SATA, 1 DisplayPort <b>Optional rear I/O</b> (mezzanine card): up to 8 Gigabit Ethernet	Windows, Linux

**Compare Chart**

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	Type	CPU	Performance Scalability	CompactPCI Serial Slots	Memory max.	Interfaces	Software
<b>G52A</b>	SBC	Freescale QorIQ T4240, 12 cores	1.5 to 1.8 GHz	CompactPCI Serial system slot or CompactPCI Serial peripheral slot	12 GB DDR3 DRAM (soldered), microSD card	<b>Standard front I/O:</b> 2 10 Gb Ethernet, 1 Gb Ethernet, 1 USB 2.0, 1 RS232 configuration port (USB 2.0)  <b>Standard rear I/O:</b> 3 Gb Ethernet, 1 USB 2.0, 2 SATA, 1 PCIe x2, 3 PCIe x4	Linux
<b>G51</b>	SBC	Freescale QorIQ P3041, quad-core, with or without encryption	1.2 GHz	CompactPCI Serial system slot or CompactPCI Serial peripheral slot	2 GB DDR3 DRAM (soldered), FRAM, microSD card, mSATA slot, eMMC card	<b>Standard front I/O:</b> 3 Gb Ethernet, 2 USB 2.0  <b>Standard rear I/O:</b> 4 Gb Ethernet, 6 USB 2.0, 2 SATA, SGPIO, 2 PCIe x2, 1 PCIe x4  <b>Optional rear I/O:</b> 7 USB 2.0	Linux
<b>G100</b>	CompactPCI Serial to CompactPCI Interface (with F100)			CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> 1 PCI Express x1	Driver software not necessary
<b>G201</b>	USB 3.0 Interface			CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> 4 USB 3.0 interfaces	Windows, Linux
<b>G204</b>	M-Module Carrier			CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> 1 M-Module slot	M-Module driver software
<b>G211</b>	Gigabit Ethernet Interface			CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> 4 full/half-duplex 1000BASE-T Ethernet on RJ45 or M12 connectors	Windows, Linux
<b>G211F</b>	Quad Fiber Optics Interface			CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> 4 optical transceiver channels 1000BASE-SX	Windows, Linux

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	Type	CPU	Performance Scalability	CompactPCI Serial Slots	Memory max.	Interfaces	Software
<b>G212</b>	PCI Express MiniCard Carrier			CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> Express Card 34 or Express Card 54 slots via 4 SMA for HF applications (GPS, GSM, WLAN, UMTS, HSDPA)  <b>Onboard I/O:</b> Up to 2 PCI Express MiniCards	Depending on PCIe MiniCard/ Express Card
<b>G213</b>	XMC/PMC Carrier			CompactPCI Serial peripheral slot		<b>Onboard I/O:</b> 1 XMC slot (2 links x4), or 1 PMC slot (32-bit, 64-bit, PCI-X up to 133MHz)	Depending on XMC/PMC card
<b>G214</b>	Multi-Display Controller	GPU: AMD E6760		CompactPCI Serial peripheral slot	1 GB integrated graphics RAM	<b>Standard front I/O:</b> 4 DisplayPort 1.2 interfaces (+ 2 DisplayPort 1.1 interfaces optional via side-board connector)	Windows Vista/7, Linux
<b>G215</b>	Universal Interface Board	Nios Soft Core optional		CompactPCI Serial peripheral slot	4 MB Flash, Up to 64 MB DRAM	<b>Standard configuration:</b> 2x CAN, 2x UARTs, 1x 8-bit GPIO for use with SA-Adapters (customizable via onboard FPGA)	Linux, VxWorks, Windows, QNX
<b>G301</b>	Unmanaged Ethernet Switch			CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> 4x 1000BASE-T Ethernet  <b>Optional rear I/O:</b> 1x 1000BASE-T Ethernet (J6)	Driver software not necessary
<b>G302</b>	Managed Ethernet Switch	Freescale PowerPC MPC8314		CompactPCI Serial system or peripheral slot	32 MB Flash, 512 MB SDRAM	<b>Standard front I/O:</b> 3x 1000BASE-T Ethernet  <b>Rear I/O:</b> up to 13x 1000BASE-T Ethernet	Management Firmware
<b>G303</b>	Unmanaged Ethernet Switch			CompactPCI Serial system or peripheral slot		<b>Standard front I/O:</b> 3x 1000BASE-T Ethernet  <b>Rear I/O:</b> up to 13x 1000BASE-T Ethernet	Driver software not necessary

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	Type	CPU	Performance Scalability	CompactPCI Serial Slots	Memory max.	Interfaces	Software
<b>G501</b>	HDD/SSD Shuttle			1 CompactPCI Serial peripheral slot		<b>Onboard I/O:</b> 1x 2.5" SATA HDD or SSD	Driver software not necessary
<b>G503</b>	HDD/SSD Shuttle & RAID Controller			1 CompactPCI Serial peripheral slot		<b>Onboard I/O:</b> 2x 2.5" SATA HDD or SSD	Driver software not necessary
<b>GE1</b>	Gigabit Ethernet Line Card			1 CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> Four 1000BASE-TX Ethernet on RJ45 or M12 connectors Optional PoE	
<b>GP1</b>	Gigabit Ethernet Line Card			1 CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> Four 1000BASE-TX Ethernet on RJ45 or M12 connectors Optional PoE	
<b>GP2</b>	Gigabit SFP PHY Line Card			1 CompactPCI Serial peripheral slot		<b>Standard front I/O:</b> Four 1000BASE-SX/LX/ZX on SFP slots	
<b>GX1</b>	PCI Express 3.0 Switch			1 CompactPCI Serial peripheral slot		<b>Rear I/O:</b> 16 ports, 64 PCI Express lanes	Third party from chip manufacturer