



Xtreme/SBC

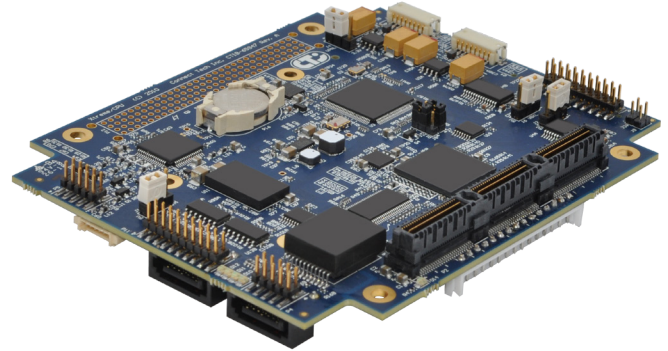
PCIe/104 Single Board Computer

Product Name: Xtreme/SBC
Part Number: QCG001

Connect Tech's Xtreme/SBC is a small single board computer that utilizes the PCIe/104 form factor with 4 x1 PCIe lanes. Xtreme/SBC offers a variety of embedded processor solutions including **Intel Atom**, **Freescale i.MX51**, **TI OMAP** and **NVIDIA Tegra**.

Xtreme/SBC allows instant access to a full range of PCIe/104 peripherals from a rapidly growing eco-system including FPGA solutions, multi-port serial, frame grabbers and more. This single board computer solution is modular and completely scalable, with access to the most current embedded processors that are easily upgradable to accommodate future generations of **Intel Atom** processors, such as **Tunnel Creek**, or **ARM** based processors, such as **Cortex A8**.

Xtreme/SBC conveniently provides on-board connectors allowing for instant access to a variety of features including SATA, Ethernet, USB, LVDS and VGA Video, RS-232 and RS-422/485.



FEATURES

- ✓ *PCIe/104 form factor, 4x1 PCIe lanes*
- ✓ *On-board connectors for instant access to SATA, Ethernet, USB, LVDS & VGA Video, RS-232 & RS-422/485*
- ✓ *Intel & ARM based processors: Atom Z500, Atom Tunnel Creek, Freescale i.MX51, TI OMAP & NVIDIA Tegra*

	INTEL PROCESSOR			ARM PROCESSOR	
	Atom Z500	Atom Tunnel Creek	Freescale i.MX51	TI OMAP	NVIDIA Tegra
Form Factor	PCIe/104				
Speed	1.1 to 1.6 GHz	600 MHz to 1.6 GHz	Up to 800 MHz	Up to 600 MHz	Up to 1.0 GHz
PCIe Lanes	4x PCIe x1	4x PCIe x1	-	-	4x PCIe x1
Memory	1 GB	Up to 2 GB	256-512 MB	128 MB – 256 MB	Up to 1GB
On-Board Flash Disk	Up to 4GB	Up to 32GB	Up to 4GB	256-512MB	Up to 16GB
Graphics	Intel GMA 500	Intel GMA 500	OpenGL/OpenVG	POWERVR SGX	NVIDIA ULP
Display Interface	VGA, LVDS	VGA, LVDS	LVDS, DVI	LVDS	LVDS
External Storage	1x SATA	2x SATA	N/A	N/A	N/A
USB	4x USB 2.0	4x USB 2.0	2x USB 2.0, 1x USB OTG	2x USB 2.0, 1x USB, OTG	4x USB 2.0
Ethernet	10/100/1000	10/100/1000	10/100	10/100	10/100
Other	-	-	Micro SD, Video Input	Video Input	-
Temperature	-20°C - 70°C/-4°F - 158°F	-20°C - 70°C/-4°F - 158°F	0°C - 60°C/32°F - 140°F	-20°C - 70°C/-4°F - 158°F	0°C - 60°C/32°F - 140°F
Serial Interface	2x RS-232, 2x RS-485, PS/2 keyboard and mouse				
Dimensions	PC/104 Compliant				
Power	ATX Supply Input				
Accessories	Optional Cable Kit				
Warranty & Support	2 Year Warranty and Free Technical Support				

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