



Connect Tech Inc.
Embedded Computing Experts



Product Guide

SPRING 2012

Fanless Embedded Systems • Single Board Computers
COM Express® Carrier Boards • Qseven Carrier Boards
Cellular/Satellite M2M • FPGAs • Digital I/O • Analog I/O
CAN Controllers • Solid State Drives • Ethernet-to-Serial
Enclosure Systems • FeaturePak • Wireless Radio Modems
Multi-Port Serial • Adapters & Development Tools
Modified COTS Solutions

25th

ANNIVERSARY
1985 - 2010

www.connecttech.com



Connect Tech Inc.
Embedded Computing Experts

Powerful, cost-effective connectivity solutions to meet product development requirements

Connect Tech delivers high performance connectivity solutions for embedded and industrial technology applications. For more than 25 years, Connect Tech has built a solid reputation for expertise in providing professional design services, delivering unsurpassed technical support and developing innovative products that improve design efficiency and cost effectiveness.

Embedded Solutions for simple to complex applications



Commercial off-the-shelf and modified solutions
Fanless Embedded Systems • Single Board Computers • Qseven/COM Express
Carrier Boards • Cellular/Satellite M2M • FPGAs • Digital I/O
Analog I/O • CAN Controllers • Solid State Drives • Ethernet-to-Serial
Enclosure Systems • FeaturePak • Wireless Radio Modems
Multi-Port Serial • Adapters and Development Tools

Serving customers around the globe

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NOTE: Specifications found in this guide are subject to change without notice.

NEW! Connect Tech Products

COM Express

COM Express® Carrier Board



The **COM Express® Carrier** is a full-featured compact carrier board that is compatible with COM Express® Type 2 Basic and Compact modules.

Expansion	PC/104-Plus and PC/104-Express
Interfaces	SATA, mSATA, USB, Ethernet, LVDS/VGA/HDMI Video
Compatibility	COM Express® Type 2 Basic and Compact Modules
Dimensions	175mm x 115mm

Qseven Carrier Boards

Lite Qseven Carrier Board



The low cost, feature rich **Lite Qseven Carrier Board** integrates with any industry standard Qseven module.

Connectors	x2 Mini-PCIe and x2 SIM Card
Interfaces	2x SATA, 8x USB, LVDS & HDMI Video/Audio
Dimensions	128mm x 100mm

Ultra Lite Qseven Carrier Board



The **Ultra Lite Qseven Carrier Board** with Pico-ITX integrates with any industry standard Qseven module.

Form Factor	Pico-ITX
Connectors	x1 Mini-PCIe and x1 SIM Card
Interfaces	1x SATA, 4x USB, LVDS Video
Dimensions	72mm x 100mm

Analog I/O

Xtreme I/O ADC-DAC



Xtreme I/O ADC-DAC is an analog data acquisition board for the small form factor embedded market place.

Form Factor	PCI-104
Analog Inputs	32 Single Ended/16 Differential Channels, 16/14/12 bit 100kps, Software-Programmable Input Ranges
Analog Outputs	4 Channels, 16/14/12 bit resolution, 6 programmable output ranges
Digital I/O	16 bit Bi-directional I/O

Solid State Drive

SSD/104 SATA



SSD/104 SATA is a stackable storage solution that allows installation of up to two mSATA SSD modules into any PC/104-Plus, PCI-104, PCI/104-Express and PCIe/104 stack or embedded system.

Capacity	4, 8, 16, 32, 64 or 128GB Up to 256 GB with 2 mSATA modules
Flash Type	MLC and SLC options (-40°C to 85°C/-40°F to 185°F)
Expansion	PCI/104-Express, PCIe/104, PCI-104 or no bus option

Cellular/Satellite M2M

ROADWARRIOR



RoadWarrior enables remote monitoring, controlling and collecting of data from multiple I/O interfaces through a wireless cellular data link or Low Earth Orbit (LEO) satellite.

Serial	2 x RS-232, 2 x RS-485
Cell Networks	HSPA/EV-DO/UMTS/EDGE/GPRS/CDMA
Satellite	LEO Satellite
Features	CAN, GPS, Bi-directional GPIO, Isolated GPIO and ADCs

PCIe/104

SUMIT to PCIe/104 Adapter



SUMIT to PCIe/104 Adapter enables easy integration of a PCIe/104 or PCI/104-Express card into an existing SUMIT-104 system.

Bus Connectors	SUMIT A and B PCIe/104 x 1
Temperature	-40°C to 85°C (-40°F to 185°F)
Optional	2 x USB (from SUMIT) via Mini USB connectors
Dimensions	L: 9.02 cm/3.55" W: 9.6 cm/3.78"

PCIe/104 to PCI Express Cable Adapter



PCIe/104 to PCI Express Cable Adapter provides an interface from the PCIe/104 (PCI/104-Express) bus to a PCI Express cable connection.

Interconnect	x1 PCIe/104 lanes connected via PCI Express cable
Connectors	PCIe cable connector, PCI-104/Express 156 pin top and bottom connectors
Dimensions	L: 9.02 cm/3.55" W: 9.5885 cm/3.775"

PCIe/104 Bus Extender



The **PCIe/104 Bus Extender** allows one additional card height spacing between peripherals in a PCIe/104 or PCI/104-Express stack.

Bus Connectors	PCIe/104 x 16
Bus	PCIe/104 (PCI/104-Express)
Temperature	-40°C to 85°C (-40°F to 185°F)
Dimensions	L: 9.02 cm/3.55" W: 1.4605 cm/.575"

Enclosure System

Rugged Enclosure System



The **Rugged Enclosure System** is an enclosure system designed to house PC/104 compatible boards.

Features	<ul style="list-style-type: none"> Designed to IP65 specifications Internal and external suspension system Modular assembly joined by O-ring & labyrinth seal Expandable for additional segments Up to three modules between end caps
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NEW! Fanless Aluminum Embedded Products

PAR-2013D

Ideal for Industrial Automation Control



PAR-2013D is an AMD LX-800 DIN-rail mount industrial fanless embedded platform which features LAN, USB, VGA, RS-232, and isolated RS-422/485 and digital I/O.

Processor	AMD LX-800 500 MHz low power processor
Isolated Digital I/O	2500V isolation protection 3D-In: Low Level: 0-3V, High Level: 10-50V 2D-Out: 500mA drive capability
LAN/USB/CF	2/2/1
Expansion	1 Mini-PCI & 1 PCI-104
Dimensions	W: 60mm H:180mm D:130mm

PAR-2200D-120 / PAR-2200D-130

Ideal for Industrial Automation Control



PAR-2200D is an Intel® Atom™ N270 fanless embedded platform which supports dual display DVI and VGA, along with support for up to 4 COMs, CF, SATA, and a power input of 12V/24V.

CPU Speed	1.6GHz
Processor	Intel® Atom™ N270
Memory	512MB
Serial Ports	3x RS-232, 1x RS-232/485
Storage	1 SATA, 1 CF
Power Input	PAR-2200D-120: DC 12V PAR-2200D-130: DC 24V
Dimensions	W: 56.5mm H:180 mm D:130mm

PAR-2042

Ideal for Industrial Automation Control



PAR-2042 is an Intel® Atom™ N270 industrial fanless embedded platform which features digital I/O with isolation protection and supports up to 4 COMs.

CPU Speed	1.6GHz
Processor	Intel® Atom™ N270
Isolated Digital I/O	2500V isolation protection 3D-In: Low Level: 0-3V, High Level: 10-50V 2 D-Out: 500mA drive capability
Expansion	1 Mini-PCI, 1 Mini-PCIe & 2 PCI-32
Dimensions	W: 235.6mm H: 125 mm D: 230mm

PAR-2052M

Ideal for Industrial Automation Control



PAR-2052M is an Intel® Atom™ N270 fanless embedded platform which features digital I/O with isolation protection and supports up to 3 COMs.

CPU	1.6GHz
Processor	Intel® Atom™ N270
Memory	512MB
Serial Ports	1x RS-232, 2x RS-232/485
Isolated Digital I/O	3D-In, 2D-Out
Expansion	1 Mini-PCI, 1 Mini-PCIe & 2 PCI-32
Dimensions	W: 208mm H:125mm D: 230 mm

PAR-2192M

Ideal for In-Vehicle Embedded Systems



PAR-2192M features an Intel® D510 Dual-Core 1.6 GHz processor. This fanless embedded platform supports GSM/GPRS/WCDMA/HSDPA and GPS.

CPU	1.6GHz
Processor	Intel® D510 Dual-Core
Memory	512MB
Isolated Digital I/O	2500V isolation protection 3D-In: Low Level: 0-3V, High Level: 10-50V 2D-Out: 500mA drive capability
Expansion	1 Mini-PCI, 1 Mini-PCIe & 1 PCI-32
Dimensions	W: 208mm H:115mm D:230 mm

PAR-2311

Ideal for Industrial Automation Control



PAR-2311 features an Intel® i3/i5/i7 4 Core Processor which offers high performance, yet is low on power consumption. Ideal for applications which require increased productivity, speed, high performance, large storage and modern graphic features.

CPU	2.1GHz 4C
Processor	Intel® i7-2710QE
Memory	4GB
LAN/USB/COM	2/6/5
Expansion	2 x1 PCIe lanes
Dimensions	W: 300mm H: 146.5mm D: 220 mm

Single Board Computers for PCIe/104 and PCI-104

Connect Tech's **Xtreme/SBC Single Board Computers** offer a variety of embedded processor options including **AMD G-Series**, **Intel® Atom™**, **Freescale i.MX51**, **TI OMAP** and **NVIDIA Tegra**. The on-board connectors of our Xtreme/SBC products provide access to SATA, USB, Ethernet, LVDS and VGA Video, and RS-232 & RS-422/485. Xtreme/SBC solutions are modular and completely scalable, with access to current embedded processors that are easily upgradable to accommodate future generations of Intel® Atom™ processors, such as **Intel® Atom™ E6xx**, or ARM based processors, such as **Cortex A8**.



CTI Off-the-Shelf and Modified Solutions

Xtreme/SBC products are ideal off-the-shelf solutions for a broad range of applications. Achieve rapid proof of concept and deploy systems for field trials with off-the-shelf hardware.

Through our engineering services, customers will benefit from our modified designs. The Connect Tech engineering team is skilled at creating customer-specific products that ensure both time to market and price targets are met.

Xtreme/SBC PCIe/104



Xtreme/SBC PCIe/104 Single Board Computer utilizes the PCIe/104 form factor with 4 x1 PCIe lanes. Instantly access a variety of features using the SBCs on-board connectors. Embedded processor options include **AMD G-Series**, **Intel® Atom™**, **Freescale i.MX51**, **TI OMAP** and **NVIDIA Tegra**.

Form Factor	PCIe/104
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX Supply Input or +5V/+12V only
Dimensions	PC/104 Compliant

Xtreme/SBC PCI-104



Xtreme/SBC PCI-104 Single Board Computer utilizes the PCI-104 form factor, supporting four peripheral boards. Instantly access a variety of features using the SBCs on-board connectors. Embedded processor options include **AMD G-Series**, **Intel® Atom™**, **Freescale i.MX51**, **TI OMAP** and **NVIDIA Tegra**.

Form Factor	PCI-104
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX Supply Input or +5V/+12V only
Dimensions	PC/104 Compliant

	AMD PROCESSOR		INTEL PROCESSOR		ARM PROCESSOR	
	Fusion / G-Series	Atom Z500, E600	Freescale i.MX51	TI OMAP	NVIDIA Tegra	
Speed	1.0 GHz	600 MHz to 1.6 GHz	Up to 800 MHz	Up to 600 MHz	Up to 1.0 GHz	
PCIe/104	4 x1	4 x1	-	-	4 x1	
PCI-104	Up to 4 devices	Up to 4 devices	-	-	Up to 4 devices	
Memory	Up to 4GB	Up to 2GB	256-512MB	128MB – 256MB	Up to 1GB	
On-Board Flash Disk	Up to 32GB	Up to 32GB	Up to 4GB	256-512MB	Up to 16GB	
Graphics	Radeon 6250	Intel GMA 500	OpenGL/OpenVG	POWERVR SGX	NVIDIA ULP	
Display Interface	LVDS	VGA, LVDS	LVDS, DVI	LVDS	LVDS	
External Storage	2x 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	0°C - 60°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 & mouse	-	-	-	
Accessories	Optional Cable Kit	Optional Cable Kit	Optional Cable Kit	Optional Cable Kit	Optional Cable Kit	
Warranty/Technical Support	Lifetime/Free Tech Support	Lifetime/Free Tech Support	Lifetime/Free Tech Support	Lifetime/Free Tech Support	Lifetime/Free Tech Support	

NEW! Enclosure Systems

Rugged Enclosure System



FEATURES

- ✓ Designed to IP65 specifications
- ✓ Internal and external suspension systems
- ✓ Modular assembly fits together precisely
 - ✓ Expandable modular system
- ✓ Up to three modules between end caps
 - ✓ Customized solutions

Connect Tech's **Rugged Enclosure System** is a light-weight, aluminium enclosure designed to house and protect PC/104 form factor boards.

The Rugged Enclosure System ensures a sealed, dry environment under extreme temperatures and conditions, including exposure to humidity, immersion and fluids. The modular design accommodates up to three modules in between the end caps.

Front Interior View



Rear Interior View



NEW! Cellular/Satellite M2M Communications

ROADWARRIOR enables remote monitoring, controlling and collecting of data from multiple I/O interfaces through a wireless cellular data link or Low Earth Orbit (LEO) satellite. **ROADWARRIOR** can be controlled from any Internet connected device and configured to operate on any existing cellular network standard and frequency bands, with convenient upgradeability to operate on future cellular networks.

ROADWARRIOR is designed with a wide range of interfaces including RS-232, RS-485, CAN, GPS, Bi-directional GPIO, High Voltage Isolated GPIO and ADCs, and is ideal for remote, rugged mobile, mission-critical and industrial strength applications.



Specifications

Cellular	Cellular Networks: HSPA/EV-DO/UMTS/EDGE/GPRS/CDMA Frequency Bands: 3G/3.5G: 850/1900/2100 MHz 2G/2.5G: 850/900/1800/1900 MHz Drop-in replacement for future mobile telephony standards, networks and frequency bands
GPS	NMEA-0183 V3.01 compliant GPS messages
Satellite	Optional satellite communication capabilities via Low Earth Orbit (LEO) Satellites
Serial	2 x RS-232, 2 x RS-485
CAN	2 x CAN 2.0b
GPIO	16 bits +3.3V or +5V bi-direction GPIO 3 bits optically isolated outputs (0 to +40V DC) 3 bits optically isolated inputs (0 to +40V DC)
ADC	4 channels of 10-bit / 1Msps ADCs
I/O & Power Connectors	2.5mm pitch terminal block headers
Main Control Unit	Configurable Microchip PIC32 Microcontroller PIC32MX775
Enclosure	Rugged extruded aluminum enclosure with mounting flanges. 5.275" (width) x 2.000" (height) x 6.000" (length)
Input Power	+9 to +30V DC with reverse polarity protection (ability to handle standard vehicle power)
Temperature	-40°C to 85°C (-40°F to 185°F)



FreeForm/Express S6



As shown with Epiq Solutions' Bitshark FMC-1RX RF receiver

FreeForm/Express S6 is a reconfigurable computing platform based on the **Xilinx Spartan-6 FPGA**. FreeForm/Express S6 includes an industry-standard FPGA Mezzanine Card (FMC) connector, which provides a flexible I/O interface for future scaling and customization.

Form Factor	PCIe x1 Lane
FPGA	Xilinx Spartan-6 LX45T
Bus Interface	Spartan-6 PCIe Gen 1 Endpoint
Mezzanine Card	1x low pin count FPGA Mezzanine Card (LPC FMC) 36 LVDS pairs, 1 rocket I/O channel, I2C interface
Power	+3.3V DC and +12V DC
Temperature	-40°C to 85°C (40°F to 185°F)
Dimensions	L: 16.76 cm/6.6" W: 11.11 cm/4.375"

Xtreme I/O Opto



Xtreme I/O Opto is a 48-bit isolated digital input/output board with 24 optically isolated inputs and 24 optically isolated outputs.

Form Factor	PCI-104 or PCI-104-Plus
Connectors	2 x 25 (50 position) 0.1" (DIL) pin headers
Isolation	2kV isolation on all channels
Inputs/Outputs	24 optically isolated inputs/outputs (24-bits) Input/output voltage range: +0 up to +40V DC
Dimensions	L: 9.5885 cm/3.775" x 9.017 cm/3.550"

FreeForm/PCI-104



FreeForm/PCI-104 is a reconfigurable FPGA development board with high speed digital I/O that combines a user programmable FPGA with a 32-Bit, 33MHz PCI-104 interface.

Form Factor	PCI-104
FPGA	Xilinx Virtex-5 FPGA (LX30T, LX50T and FX30T)
Power	5V DC
Temperature	-40°C to 85°C (-40°F to 185°F)
Dimensions	L: 9.5885 cm/3.775" W: 9.0805 cm/3.575" H: 1.3589 cm/0.535"

FreeForm/104



FreeForm/104 is a PC/104 based card that features a reconfigurable FPGA for digital I/O and control applications. FreeForm/104 is based on the Xilinx Spartan-3E.

Form Factor	PC/104
FPGA	Xilinx Spartan-3E FPGA, 500,000 gates, 360K RAM Standard FPGA Configurations: Digital I/O: 96 digital I/O (8255 compatible), 6 x 8254 counter/timers Digital I/O Opto-22: 48 Opto-22 (8255 compatible), 6 x 8254 counter/timers
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 9.5885cm/3.775" W: 9.017cm/3.55"
Power	+5V DC (± 5%)

FreeForm/104 Daughter Board



Daughter Board is an adapter for Connect Tech's **FreeForm/104** board that enables users to capture and process synchronous and asynchronous RS-232 or RS-422/485 serial data with customizable FPGA implementations.

Form Factor	PC/104
Ports	2
Interface	RS-232, RS-422, RS-449
Control Signals	TxD, RxD, DTR, RTS, CTS, DCD, TxClk, RxClk
Connectors	PC/104 pass-through 2x50 pin connector to connect to FreeForm 2x26 pin header connectors
Temperature	0°C to 70°C (32°F to 158°F)

Custom FPGA Design Services

Need assistance with a custom FPGA design? We can help at any stage of a project!

Connect Tech's Engineering Team would be happy to discuss your unique requirements. Our team of highly skilled engineers are dedicated, knowledgeable and experienced. They offer several years of experience in custom FPGA designs and will work with you to implement a solution that will meet your needs.

NEW! Xtreme I/O ADC-DAC



Xtreme I/O ADC-DAC is an analog data acquisition board for the small form factor embedded market place.

Form Factor	PCI-104, PCIe/104 and PCI/104-Express
Analog Inputs	32 Single Ended/16 Differential Channels, 16/14/12 bit 100kps, Software-Programmable Input Ranges
Analog Outputs	4 Channels, 16/14/12 bit resolution, 6 programmable output ranges
Digital I/O	16 bit Bi-directional I/O

Xtreme I/O Opto



Connect Tech's **Xtreme I/O Opto** is a 48-bit isolated digital input/output board with 24 optically isolated inputs and 24 optically isolated outputs.

Form Factor	PCI-104 or PC/104-Plus
Connectors	2 x 25 (50 position) 0.1" (DIL) pin headers
Isolation	2kV isolation on all channels
Inputs	24 optically isolated inputs (24-bits) Input voltage range +0 up to +40V DC
Outputs	24 optically isolated outputs (24-bits) Output voltage range +0 up to +40V DC
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.55"

FreeForm/104



FreeForm/104 is a PC/104 based card that features a reconfigurable FPGA for digital I/O and control applications. FreeForm/104 is based on the Xilinx Spartan-3E.

Form Factor	PC/104
FPGA	Xilinx Spartan-3E, 500,000 gates, 360K RAM Standard FPGA Configurations: Digital I/O: 96 digital I/O (8255 compatible), 6 x 8254 counter/timers Digital I/O Opto-22: 48 Opto-22 (8255 compatible), 6 x 8254 counter/timers
I/O	Programmable I/O: 96 high current TTL/CMOS (48 per 50 pin connector), 6 TTL (26 pin connector) Fixed I/O: 12 TTL inputs (26 pin connector)
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.55"

NEW! Analog I/O Solutions

Xtreme I/O ADC-DAC is an analog and digital peripheral board for the **PCI-104, PCIe/104** and **PCI/104-Express** small form factor embedded market place.

Xtreme I/O ADC-DAC

Analog Input & Output Model



32 single ended/16 differential channels of 16 bit analog input, 4 channels 16 bit analog output, 16 bit GPIO

Analog Input Model



32 single ended/16 differential channels of 16/12 bit analog input, 16 bit GPIO

Ideal for data acquisition, measurement and control applications

Specifications

Form Factor	PCI-104, PCIe/104 and PCI/104-Express
Analog Inputs	Channels: 32 Single Ended / 16 Differential Resolution: 16-bit/12-bit Sampling Rate: 100,000 samples per second Calibration: Built in temperature Auto calibration Protection: ±25V Software Programmable Input Ranges: 0-5V, 0-10V, ±5V, ±10V Signal-to-Noise Ratio: 87dB
Analog Outputs	Analog Input & Output Model only Channels: 4 Resolution: 16-bit Six Programmable Output Ranges: • Unipolar: 0V to 5V, 0V to 10V • Bipolar: ±5V, ±10V, ±2.5V, -2.5V to 7.5V Outputs Drive: ±5mA
Digital I/O	16-bit bidirectional I/O Input/Output Ranges: • Hardware selectable +3.3V or +5V (TTL/CMOS) High Current: 24mA
Dimensions	Fully PCI-104 compliant
Temperature	-40°C to 85°C (-40°F to 185°F)
Operating Systems	Windows, Linux, QNX

Xtreme/104-Express



Xtreme/104-Express is a PCI/104-Express multi-port serial board which provides a PCI-104 pass-through connector. Fully PCI/104-Express compliant.

Form Factor	PCI/104-Express
Ports	8
Line Interface	RS-232/422/485 RS-232 or RS-422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,SG RS-422/485: TxD±,RxD±,CTS±,RTS±,SR
Baud	RS-232: 50 bps to 921.6 Kbps RS-422/485: up to 15.625 Mbps
UART	Octal PCI Express, 128 Byte FIFO
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.550"

Xtreme/104-Express Opto



Xtreme/104-Express Opto is a PCIe/104 serial card with 3 kV optical isolation for rapid data transfer, high reliability and rugged system due to the stacking nature of the PC/104 form factor.

Form Factor	PCIe/104
Ports	4/8
Line Interface	RS-232/422/485 RS-232 or RS-422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,SG RS-422/485: TxD±,RxD±,CTS±,RTS±,SR
Baud	RS-232: 50 bps to 1 Mbps RS-422/485: up to 7.8125 Mbps
UART	Quad/Octal PCI Express, 256 Byte FIFO
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.550"

Xtreme/SBC PCIe/104



Xtreme/SBC PCIe/104 Single Board Computer utilizes the PCIe/104 form factor with 4 x1 PCIe lanes. Instantly access a variety of features using the SBCs on-board connectors. Embedded processor options include **AMD, Intel®, Freescale, TI** and **NVIDIA**.

Form Factor	PCIe/104, 4x PCIe Lanes
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX Supply Input or +5V/+12V only
Dimensions	PC/104 Compliant

PCIe/104 Qseven Carrier Board



The **PCIe/104 Qseven Carrier Board** is a small embedded carrier board that allows complete integration with any industry standard Qseven module. The PCIe/104 Qseven Carrier Board utilizes the PC/104 form factor with 4 x1 PCIe lanes and the PCIe/104 bus.

Form Factor	PCIe/104, 4x1 PCIe lanes
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX or +5V/+12V only
Temperature	-20° C to 70° C (-4° F to 158° F)
Dimensions	PC/104 Compliant

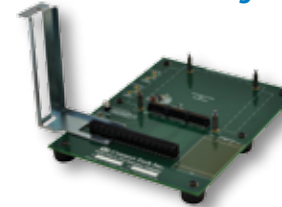
PCI Express to PCIe/104 Adapter



PCI Express to PCIe/104 Adapter allows a PCIe/104 or PCI/104-Express card to be installed into a standard PCI Express system slot.

Bus	PCIe/104 and PCI/104-Express compatible
Features	x1 lane PCI Express card edge for installation in any slot width
Connector	PCIe/104 156-pin / PCI-104 120-pin
Dimensions	L: 11.11 cm/4.375" W: 10.29 cm/4.050"

PCIe/104 to PCI Express Adapter - Bottom Stacking



PCIe/104 to PCI Express Adapter - Bottom Stacking model allows a PCI Express card to be installed into a PCIe/104 or PCI/104-Express single board computer system in a stack down configuration.

Bus	PCIe/104 and PCI/104-Express compatible
Features	x16 lane vertical PCI Express card edge (supports x1, x4, x8 or x16)
Connector	156 pin PCIe/104 top connector; footprint for 2x USB Type B connector
Dimensions	L: 19.3 cm/7.6" W: 15.2cm/6"

PCIe/104 to PCI Express Adapter - Top Stacking



PCIe/104 to PCI Express Adapter - Top Stacking model allows a PCI Express card to be installed into a PCIe/104 or PCI/104-Express single board computer system in a stack up configuration.

Bus	PCIe/104 and PCI/104-Express compatible
Features	x16 lane vertical PCI Express card edge (supports x1, x4, x8 or x16)
Connector	156 pin PCIe/104 bottom connector
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.550"

Xtreme/104-Plus

Xtreme/104-Plus offers more choice for embedded applications requiring a small footprint, but fast data transfer rates. Xtreme/104-Plus is available with 4 or 8 high speed asynchronous RS-232/422/485 ports, 8 selectable RS-232/422/485/TTL ports, or 2/4 dedicated RS-423 ports.

Form Factor	PC/104-Plus
Control Signals	RS-232: TxD, RxD, RTS, CTS, RI, DTR, DSR, DCD and SG RS-422/485: (TxD, RxD, RTS, CTS)± and Signal Reference RS-423: TxD-, TxDRef, RxD±, RTS-, RTSRef, CTS±
Dimensions	Fully PC/104-Plus compliant
Temperature	-40°C to 85°C (-40°F to 185°F)
Power	+5V DC 500mA (maximum) V/I/O of +5V or 3.3V DC

Xtreme/104-Plus 16 Port

Xtreme/104-Plus 16 Port offers 16 ports of switchable RS-232/422/485 on a single PC/104-Plus card. This provides the highest port density and most flexible PC/104-Plus serial port solution available.

Form Factor	PC/104-Plus
Interfaces	RS-232/422/485
Power	5V bus power required. On-board regulator makes its own 3.3V +5V 400mA maximum
Dimensions	L: 9.5885cm (3.775") W: 9.017cm (3.550")

Xtreme/104-Plus Opto

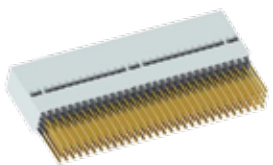
Xtreme/104-Plus Opto provides the added protection of 3kV optical isolation on a rugged and compact form factor for critical embedded applications. Xtreme/104-Plus Opto cards include a PC/104 pass-through connector.

Form Factor	PC/104-Plus
Control Signals	RS-232: TxD, RxD, RTS, CTS and Signal Ground RS-422/485: (TxD, RxD, RTS, CTS)± and Signal Reference
Temperature	-40°C to 85°C (-40°F to 185°F)
Power	+5V DC (±5%) @ 500mA (maximum)

Xtreme I/O Opto

Xtreme I/O Opto is a 48-bit isolated digital input/output board with 24 optically isolated inputs and 24 optically isolated outputs.

Form Factor	PCI-104 or PC/104-Plus
Connectors	2 x 25 (50 position) 0.1" (DIL) pin headers
Isolation	2kV isolation on all channels
Inputs/Outputs	24 optically isolated inputs/outputs (24-bits) Input/output voltage range: +0 up to +40V DC
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.550"

Now Available!

ALL Connect Tech **PCI-104** and **PC/104-Plus** boards are now available with a **22mm Connector** to extend the stack height of your PCI-104 or PC/104-Plus application!

NEW! Xtreme I/O ADC-DAC



Xtreme I/O ADC-DAC is an analog data acquisition board for the small form factor embedded market place.

Form Factor	PCI-104
Analog Inputs	32 Single Ended/16 Differential Channels, 12/14/16 bit 100kps, Software-Programmable Input Ranges
Analog Outputs	4 Channels, 12/14/16 bit resolution, 6 programmable output ranges
Digital I/O	16 bit Bi-directional I/O
Temperature	-40°C to 85°C (-40°F to 185°F)

PCI-104 Qseven Carrier Board



PCI-104 Qseven Carrier Board is a small embedded carrier board that allows complete integration with any industry standard Qseven module. PCI-104 Qseven Carrier Board utilizes the PC/104 form factor and the PCI-104 bus, and allows installation of up to 4 PCI-104 boards.

Form Factor	PCI-104
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX or +5V/+12V only
Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions	PC/104 Compliant

FreeForm/PCI-104

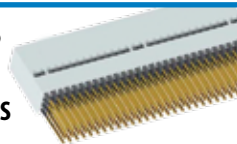


FreeForm/PCI-104 is a reconfigurable FPGA development board with high speed digital I/O that combines a user programmable FPGA with a 32-Bit, 33MHz PCI-104 interface.

Form Factor	PCI-104
FPGA	Virtex-5 FPGA options include LX30T, LX50T and FX30T
Power	5V DC (+/- 5%). May vary by application.
Temperature	-40°C to 85°C (-40°F to 185°F)
Dimensions	PCI-104 1.0 Compliant

Need to extend your stack height?

Connect Tech's **PCI-104** and **PC/104-Plus** boards are now available with a **22mm Connector** to extend the stack height of your PCI-104 or PC/104-Plus application!



Xtreme/SBC PCI-104



Xtreme/SBC PCI-104 Single Board Computer utilizes the PCI-104 form factor, supporting four peripheral boards. Instantly access a variety of features using the SBCs on-board connectors. Embedded processor options include **AMD, Intel®, Freescale, TI and NVIDIA.**

Form Factor	PCI-104
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX Supply Input or +5V/+12V only
Dimensions	PC/104 Compliant

Xtreme I/O Opto



Xtreme I/O Opto is a 48-bit isolated digital input/output board with 24 optically isolated inputs and 24 optically isolated outputs.

Form Factor	PCI-104 or PC/104-Plus
Connectors	2 x 25 (50 position) 0.1" (DIL) pin headers
Isolation	2kV isolation on all channels
Inputs/Outputs	24 optically isolated inputs/outputs (24-bits) Input/output voltage range: +0 up to +40V DC
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.550"

Xtreme/PCI-104 Opto 12 Port



Xtreme/PCI-104 Opto 12 Port offers 12 ports on a PCI-104 card, with the added protection of 1kV optical isolation on a rugged and compact form factor.

Form Factor	PCI-104
Interfaces	RS-232/422/485
Temperature	-40°C to 85°C (-40°F to 185°F)
Power	+5V DC 750mA to 950mA
Dimensions	L: 9.5885 cm/3.775" W: 9.017 cm/3.550"

ComSync/PCI-104



ComSync/PCI-104 which is based on the PCI bus, is a two-channel, multi-protocol serial adapter which offers high performance, reliable, synchronous or asynchronous serial communications.

Form Factor	PCI-104
Interface	RS-232, RS-422, RS-449, EIA-530, EIA-530/A, V.35 & X.21
Modes	NRXI: NRZI, NRZIB, NRZI-Mark, NRZI-Space Biphase: BiPhase-Space, BiPhase Level, Differential BiPhase
Temperature	0°C to 70°C (32°F to 158°F)
Power	5V DC @ 1 Amp (maximum)

Xtreme/104



Xtreme/104 offers four and eight asynchronous RS-232 and/or RS-422/485 serial ports.

Ports	4/8
Interface	RS-232/422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD RS-422/485: TxD±,RxD±,CTS±,RTS±
Baud	RS-232: 50 bps to 230 Kbps/Custom RS-422/485: 50 bps to 460.8 Kbps/Custom
Temperature	Operating: 0°C to 70°C (32°F to 158°F)
Dimensions	H: 9.60 cm/3.77" L: 10.41 cm/4.09" W: 1.12 cm/0.44"

Xtreme/104 RS-232



Xtreme/104 RS-232 offers four and eight asynchronous RS-232 serial ports.

Ports	4/8
Interface	RS-232
Control Signals	Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD
Baud	50 bps to 230 Kbps/Custom
Temperature	Operating: 0°C to 70°C (32°F to 158°F)
Dimensions	H: 9.60 cm/3.77" L: 10.41 cm/4.09" W: 1.12 cm/0.44"

Xtreme/104 Opto



Xtreme/104 Opto offers two or four asynchronous serial ports with 3kV optical isolation on all signals and ports.

Ports	2/4
Interface	RS-232/422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS RS-422/485: TxD±,RxD±,CTS±,RTS±
Temperature	Operating: 0°C to 70°C (32°F to 158°F)
Dimensions	H: 9.60 cm/3.77" L: 10.41 cm/4.09" W: 1.12 cm/0.44"

ComSync/104



ComSync/104 offers two synchronous/asynchronous RS-232, RS-422, RS-449, EIA-530, EIA-530/A, V.35 and X.21 serial channels.

Ports	2 Synchronous/Asynchronous Serial Channels
Interface	RS-232,RS-422,RS-449, EIA-530,EIA-530/A,V.35 & X.21
Control Signals	Tx±,Rx±,DCD±,RTS±,CTS±,DSR±,DTR±, SYNC±,TRx±,RTx±
Temperature	Operating: 0°C to 70°C (32°F to 158°F)
Dimensions	PC/104 v.2.3 Compliant

Xtreme/104 Isolated 12 Port



Xtreme/104 Isolated 12 Port is a high density adapter which offers 12 asynchronous serial ports and complies with PC/104 form factor standards. It features eight jumper selectable RS-232/422/485 ports with support for all three RS-485 modes, and includes four dedicated RS-232 ports.

Ports	12
Control Signals	RS-232: TxD, RxD, RTS, CTS, ISOGND RS-422/485: (TxD, RxD, CTS, RTS) ±, ISOGND
Connectors	10-pin connectors for RS-232/422/485 ports 6-pin connectors for RS-232 ports
Temperature	-40°C to 85°C (-40°F to 185°F)
Power	+5V DC 500mA (typical), 1A (maximum)

FreeForm/104



FreeForm/104 is a PC/104 based FPGA development board for digital I/O and control applications.

Form Factor	PC/104
FPGA	Xilinx Spartan-3E FPGA, 500,000 gates
Connector	2 x 50 pin headers, 1 x 26 pin header
Frequency	66 MHz, internally scalable
Temperature	0°C to 70°C (32°F to 158°F) Industrial temperature model: -40°C to 85°C (-40°F to 185°F)
Power	+5V DC (± 5%)

FreeForm/104 Daughter Board



Daughter Board is an adapter for Connect Tech's **FreeForm/104** board that enables users to capture and process synchronous and asynchronous RS-232 or RS-422/485 serial data with customizable FPGA implementations.

Form Factor	PC/104
Ports	2
Interface	RS-232,RS-422,RS-449
Control Signals	TxD, RxD, DTR, RTS, CTS, DCD, TxClk, RxClk
Connectors	PC/104 pass-through 2x50 pin connector to connect to FreeForm 2x26 pin header connectors
Temperature	0°C to 70°C (32°F to 158°F)

CANpro/104 Opto

CANpro/104 Opto includes two powerful NXP SJA1000 CAN controllers, along with 3kV optical isolation.

Bus	PC/104
Clock	16MHz SJA1000 input clock
Connector	10-pin right angled header (DB-9 optional)
Controllers	Two NXP SJA1000 CAN controllers
Temperature	-40°C to 85°C (-40°F to 185°F)
Power	+5V DC 500mA (maximum)

CANpro/104-Plus Opto

CANpro/104-Plus is based on the PC/104-Plus bus and includes two powerful NXP SJA000 CAN controllers, along with 3kV optical isolation.

Bus	PC/104-Plus (PCI-104 optional)
Clock	16MHz SJA1000 input clock, 32MHz local bus clock
Connector	2x 10-pin right angled headers (DB-9 optional)
Controllers	Two NXP SJA1000 CAN controllers
Temperature	-40°C to 85°C (-40°F to 185°F)
Power	+5V DC 500mA (maximum)

Product	Ports	Bus	Isolation	CAN Interface	Baud
CANpro/104 Opto	2	PC/104	3kV per port	T1 ISO1050 with fault protection Dominant State Timeout	1.0Mbps
CANpro/104-Plus Opto	2	PC/104-Plus PCI-104	3kV per port	T1 SN65HVD251 Supports 110 nodes	1.0Mbps, supports 110 nodes

Protection for your embedded networking applications

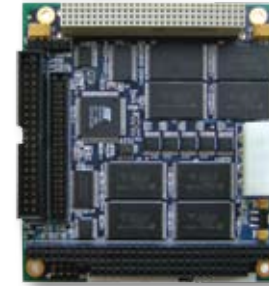
CANpro products combine the power of two NXP SJA1000 CAN controllers with the compact size and rugged stability of PC/104 and PC/104-Plus

**1 Mbps Operation • Fail-Safe Transceivers
Optical Isolation • Industrial Temperature**

**NEW! SSD/104 SATA**

SSD/104 SATA is a rugged stackable storage solution that allows installation of up to two mSATA SSD modules into any PC/104-Plus, PCI-104, PCI/104-Express and PCIe/104 stack or embedded system.

Capacity	4, 8, 16, 32, 64 or 128GB Up to 256GB with 2 mSATA modules
Connector	Standard right angle 7-pin SATA
Flash	MLC and SLC
Temperature	-40°C to 85°C (-40°F to 185°F)
Power	+3.3V ±5%

FlashDrive/104

FlashDrive/104 is a flash based, solid state storage solution designed as a drop-in replacement for magnetic hard drives.

Form Factor	PC/104
Capacity	4, 8, 16, 32 or 64GB
Connector	Standard 40-pin, 100" and 2.5" - 44-pin, 2mm
Hard Disk	ATA/IDE
Current	Idle: 5 mA Read/Write Cycles: 150 mA
Temperature	-40°C to 85°C (4, 8, 16, 32 or 64GB models)
Power	+5V DC (± 5%)

ISA

Echo/ISA

Echo/ISA is an 8 port serial card designed for users who require continued support for ISA bus based systems.

Ports	8 asynchronous serial ports
Bus	ISA Bus
Signals	RS-232: RTS, CTS, TxD, RxD, DCD, DTR, DSR, RI, GND RS-422/485: (TxD, RxD, CTS, RTS)±, Signal Reference
Connectors	DB-9 or DB-25 male cable or connector box
Temperature	0°C to 70°C (32°F to 158°F)
Power	RS-232: +5V ±5% @ 100 mA, +12V ±10% @ 5 mA (no driver loads) @ 100 mA (all drivers loaded), -12V ±10% @ 4 mA (no driver loads) @ 100 mA (all drivers loaded) RS-422/485: +5V ±5% @ 125mA (no driver loads) @ 445mA (all drivers loaded)

Titan/cPCI (Rear and Front I/O)



Titan/cPCI (Rear and Front I/O) Adapters offer 2 or 4 asynchronous RS-232 and/or RS-422/485 serial ports with jumper selectable interface, and front or rear I/O option, along with a wide range of operating systems.

Ports	2 and 4 asynchronous RS-232 and/or RS-422/485
Bus	CompactPCI Bus
Signals	RS-232: DTR, DSR, RTS, CTS, TxD, RxD, RI, DCD, GND RS-422/485: (TxD, RxD, CTS, RTS) \pm , Signal Reference
Dimensions	CompactPCI PICMG 2.0, version 3.0 compliant
Temperature	0°C to 70°C (32°F to 158°F)
Power	+5V DC \pm 5% @ 300 mA (typical)
Isolation	Optional 3kV (Rear I/O)
Baud	RS-232: 50 bps to 230.4 Kbps RS-422/485: 50 bps to 1.8342 Mbps
UART	16C950 quad UARTs, 128 byte TxD/RxD FIFO buffers

WhiteHEAT/USB



WhiteHEAT/USB is a low profile adapter that allows users to connect serial peripherals to a computer. Affordable, reliable, and fast, WhiteHEAT/USB supports data communications speeds up to 460.8 Kbps and offers convenient Plug and Play capabilities.

Ports	4 asynchronous serial ports
Signals	RS-232: RTS, CTS, TxD, RxD, DCD, DTR, DSR, RI and Signal Ground
Protection	ESD Protection: \pm 8kV (IEC 1000-4-2, contact discharge) \pm 15kV (IEC 1000-4-2, air gap discharge)
Temperature	0°C to 70°C (32°F to 158°F)
Power	120 mA (bus powered device)
UART	Quad, 64 Byte FIFO
Baud	50 to 460.8Kbps

FEATUREPAK

PC/104 WIRELESS RADIO MODEMS

Xtreme/104 Radio Modem



Xtreme/104 Radio Modem provides wireless, long range communications for embedded PC/104 applications.

Bus	PC/104
Power	Powered via PC/104 bus - requires only 5V DC
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	W: 9.1 cm/3.6" L: 9.7 cm (3.8") H: 1.1 cm (0.44")
Warranty	One year limited

Xtreme/FP



Xtreme/FP is a 4 port multi-port serial and digital/IO FeaturePak module designed to add four high speed serial ports and 16-bits of GPIO to any FeaturePak compatible base board or single board computer.

Ports	4 Ports RS-232
Connectors	IO connected to FeaturePak IO Pins
Temperature	-40°C to 85°C (-40°F to 185°F)
UART	PCI Express UART, 256 Byte FIFO
Dimensions	2.550" x 1.7"

PCI Express to FeaturePak Adapter



PCI Express to FeaturePak Adapter converts any FeaturePak Module to PCI Express. Simply mount the FeaturePak module to the adapter and install the adapter into any PCI Express slot.

Connectors	2mm + .1" FeaturePak IO headers, 2x Micro B USB, JTAG, ATX Power, DB-9
Temperature	-40°C to 85°C (-40°F to 185°F)
Features	Custom prototyping area x1 lane PCI Express card edge allows installation in any slot width (x1, x4, x8, x16)
Dimensions	4.350" x 6.000"

Product	Cirronet Model	Frequency Range	Operating Range	I/O Data Rate	Bandwidth	UART
Xtreme/104 Radio Modem	WIT910	900 MHz	Up to 20 miles	Up to 86.4 Kbps	460 KHz	16 Byte FIFO
	WIT2450	2.4 GHz	Up to 5 miles	Up to 230.4 Kbps	864 KHz	16 Byte FIFO
	WIT2410	2.4 GHz Roaming	Up to 6 miles	Up to 230.4 Kbps	750 KHz	16 Byte FIFO

Qseven Carrier Boards for PCIe/104, PCI-104 and Pico-ITX

Connect Tech's new line of Qseven carrier boards provides users with options that include light, low cost feature sets through to full featured **PCI-104**, **PCIe/104** and **Pico-ITX** solutions.

Qseven is an off-the-shelf, multi-vendor, Computer-on-Module that integrates the core components of a PC. Our **Qseven Carrier Boards** allow complete integration with industry standard Qseven modules. Incorporating Qseven modules into Connect Tech carrier boards provides instant access to current embedded processors, including AMD G-Series, Intel® Atom™, Freescale i.MX51, TI OMAP and NVIDIA Tegra, which are easily upgradable to accommodate future generations. The on-board connectors of our Qseven products provide easy access to SATA, USB, Ethernet, LVDS and VGA Video, and RS-232 & RS-422/485.

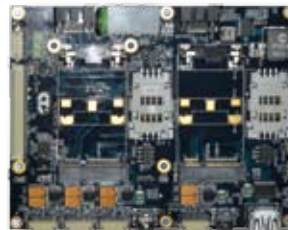
Qseven & COM Express Carrier Boards
Off-the-shelf and custom solutions for rugged, mission-critical applications

QSEVEN
Pico-ITX • PCI-104 • PCIe/104
AMD, Intel®, Freescale, TI & NVIDIA

COM Express®
• Compatible with COM Express® Type 2 Basic & Compact Modules
• PC/104-Plus & PC/104-Express Expansion



NEW! Lite Qseven Carrier Board



The low cost, feature rich **Lite Qseven Carrier Board** integrates with any industry standard Qseven module. Processor options include **AMD G-Series**, **Intel® Atom™**, **Freescale i.MX51**, **TI OMAP** and **NVIDIA Tegra**.

Connectors	x2 Mini-PCIe and x2 SIM Card
Interfaces	2x SATA, 8x USB, LVDS & HDMI Video/Audio
Power	+5V 7A, +12V 200ma
Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions	128mm x 100mm

NEW! Ultra Lite Qseven Carrier Board



The **Ultra Lite Qseven Carrier Board** with Pico-ITX integrates with any industry standard Qseven module. Processor options include **AMD G-Series**, **Intel® Atom™**, **Freescale i.MX51**, **TI OMAP** and **NVIDIA Tegra**.

Form Factor	Pico-ITX
Connectors	x1 Mini-PCIe and x1 SIM Card
Interface	1x SATA, 4x USB, LVDS Video
Power	+5V 6A, +12V 200ma
Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions	72mm x 100mm



Off-the-Shelf and Modified Qseven Solutions

PCIe/104, PCI-104 and Pico-ITX Qseven Carrier Boards are ideal off-the-shelf solutions for a broad range of applications. Achieve rapid proof of concept and deploy systems for field trials with off-the-shelf hardware.

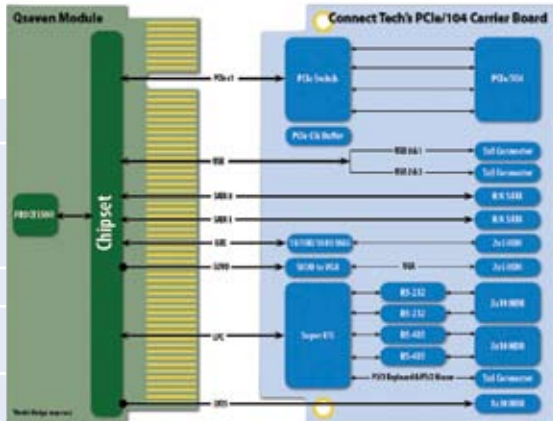
Through our engineering services, customers will benefit from our modified designs. The Connect Tech engineering team is skilled at creating customer-specific products that ensure both time to market and price targets are met.

PCIe/104 Qseven Carrier Board



Form Factor	PCIe/104, 4 x1 PCIe lanes
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX or +5V/+12V only
Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions	PC/104 Compliant

PCIe/104 Qseven Carrier Board is a small embedded carrier board that allows complete integration with any industry standard Qseven module. The PCIe/104 Qseven Carrier Board utilizes the PC/104 form factor with 4 x1 PCIe lanes and the PCIe/104 bus.



NEW! COM Express® Carrier Boards



FEATURES

- ✓ PC/104-Plus and PC/104-Express expansion capabilities
- ✓ COM Express® Type 2 Basic and Compact module compatible
- ✓ COM Express® Carrier supports modules from major manufacturers

Connect Tech's **COM Express® Carrier Board** is a full-featured compact carrier board that is compatible with **COM Express® Type 2 Basic** and **Compact** modules. COM Express® Carrier can be used as a stand-alone carrier board, or integrated directly into an existing application. Optional PCI-104 and PCIe/104 expansion.

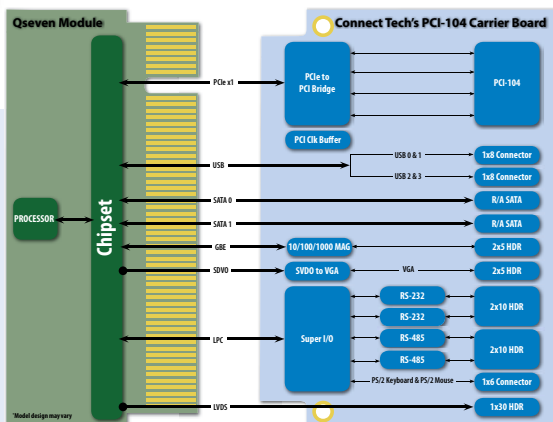


PCI-104 Qseven Carrier Board



Form Factor	PCI-104
Interfaces	2x SATA, 4x USB 2.0, 1x Gigabit Ethernet, LVDS & VGA Video, 2x RS-232, 2x RS-422/485
Power	ATX or +5V/+12V only
Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions	PC/104 Compliant

PCI-104 Qseven Carrier Board is a small embedded carrier board that allows complete integration with any industry standard Qseven module. PCI-104 Qseven Carrier Board utilizes the PC/104 form factor and the PCI-104 bus, and allows installation of up to 4 PCI-104 boards.



Specifications

LVDS Video	LVDS A & B Channel, 30 pin header, 8 pin backlight header
HDMI Video	Standard HDMI jack by Chrontel CH7307 SDVO to DVI converter
VGA Video	Standard VGA 10 pin header and adapter cable with HDB15
USB	4 x USB port via dual stacked USB connectors
Storage Options	2 x SATA, 1 x mSATA, Compact Flash Type 1
Audio	2 x Stereo jacks
Ethernet	Gigabit Ethernet, RJ45 jack
Serial	4x RS-232, 4x RS-485 using SMSC SCH3114i-NU on LPC bus I/O provided with DB9M adapter cables
GPIO	8 bits GPIO from COM® Express module, on 2x5 header DB9 adapter cable provides I/O
Power Options	ATX
12V Power Consumption	5-12A @ 12V (24V models available)
Fan	Standard 3 pin fan connector, jumper selectable 5V or 12V power
Battery	Lithium battery provides CMOS storage power
Optional Cable Kit	Includes Serial, SATA, VGA Video, LVDS, GPIO DB9 cable
Dimensions	175mm x 115mm
Operating Temperature	-30°C to 80°C (-22°F to 176°F)
Humidity	Operating: 10% to 90% Storage: 5% to 95%

Blue Heat/Net 2



Blue Heat/Net 2 is a compact Ethernet-to-serial device which offers two software selectable RS-232/422/485 serial ports, and allows connection of any RS-232 or RS-422/485 serial device to an Ethernet LAN.

Ports	2
Control Signals	RS-232: TxD, RxD, CTS, RTS, DTR, DCD, DSR, RI & SG RS-422/485: (TxD, RxD, CTS, RTS)± & SR
Baud	50 bps to 460.8 Kbps/Custom
Dimensions	L: 11.56cm/4.55" W: 11.68cm/4.50" H: 3.43cm/1.35"
Power	Multi-mode power adapter, 5V -30V DC, 500 mA Power over Ethernet (PoE) model: 30 mA@ 48V DC Screw Terminal Connector (PoE) model: 36V-56V DC
Temperature	-40°C to 85°C (-40°F to 185°F) Power over Ethernet (PoE) model: -40°C to 74°C (-40°C to 165°F)

Blue Heat/Net 4 or 8 DB-9



Blue Heat/Net 4 or 8 DB-9 is an Ethernet-to-serial device which offers four or eight RS-232 or software selectable RS-232/422/485 serial ports, and allows connection of any RS-232 or RS-422/485 serial device to an Ethernet LAN.

Ports	4/8
Control Signals	RS-232: Tx, Rx, RTS, CTS, RI, DTR, DSR, DCD, GND RS-422/485: (Tx, Rx, RTS, CTS)±, SR
LAN Interface	Auto sensing 10Base-T, 100Base-TX Ethernet
Line Interface	RS-232/422/485
Baud	50 bps to 460.8 Kbps/Custom
Dimensions	L: 24.41cm/9.61" W: 13.34cm/5.25" H: 4.29cm/1.69"
Temperature	0°C to 70°C (32°F to 158°F)

Blue Heat/Net 4 or 8 RJ-45



Blue Heat/Net 4 or 8 RJ-45 is an Ethernet-to-serial device which offers four or eight RS-232 serial ports, and allows connection of any RS-232 serial device to an Ethernet LAN.

Ports	4/8
Control Signals	Tx, Rx, RTS, CTS, DTR, DSR, DCD, GND
LAN Interface	Auto sensing 10Base-T, 100Base-TX Ethernet
Line Interface	RS-232
Baud	50 bps to 230.4 Kbps/Custom
Dimensions	L: 18.42cm/7.25" W: 13.34cm/5.25" H: 3.43cm/1.35"
Temperature	0°C to 70°C (32°F to 158°F)

Blue Heat/Net 16



Blue Heat/Net 16 is an Ethernet-to-serial device which allows serial devices to connect directly to an Ethernet LAN via 16 software selectable RS-232/422/485 ports.

Ports	16
Control Signals	Single ended: Tx, Rx, RTS, CTS, RI, DTR, DSR, DCD, GND Differential: (Tx, Rx, RTS, CTS)±, SR
LAN Interface	Auto sensing 10Base-T, 100Base-TX Ethernet
Line Interface	RS-232/422/485
Protocols	IP, TCP, UDP, ARP, RARP, TFTP, DHCP, BootP, HTTP, Telnet, ICMP, PPP
Temperature	0°C to 60°C (32°F to 140°F)
Baud	50 bps to 460.8 Kbps/Custom
Dimensions	L: 11.56cm/4.55" W: 11.68cm/4.50" H: 3.43cm/1.35"
Power	110/240V AC, 50/60 Hz, 24-56 V DC

ETHERNET-TO-SYNCHRONOUS SERIAL

Blue Heat/Net Sync



Blue Heat/Net Sync offers a synchronous Ethernet-to-serial solution for data communications.

Ports	4 Synchronous/Asynchronous Serial Ports
Control Signals	Single ended: TxD, RxD, RTS, CTS, RI, DTR, DSR, DCD, RxClock, TxClock Differential: (TxD, RxD, CTS, RTS, DTR, DCD, DSR)±, RxClock, TxClock
LAN Interface	Auto sensing 10Base-T, 100Base-TX Ethernet
Line Interface	V.28, V.10, V.11, V.35, EIA-530, V.36
Protocols	SDLC, HDLC, MonoSync, BiSync, Transparent BiSync, Async Ethernet Protocols: IP, TCP, UDP, ARP, RARP, TFTP, DHCP, BootP, HTTP, Telnet, ICMP, PPP
Temperature	0°C to 60°C (32°F to 140°F)
Dimensions	L: 11.56cm/4.55" W: 11.68cm/4.50" H: 3.43cm/1.35"
Power	5V DC (2.5A) - 28V DC (450 mA)

BlueStorm/SP



BlueStorm/SP is a high-speed multi-port communication adapter for standard profile PCI compatible computers. BlueStorm/SP offers 8 ports of RS-232/422/485 connectivity.

Ports	8
Line Interface	RS-232/422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND RS-422/485: (Tx,Rx,CTS,RTS) \pm ,GND
Baud	RS-232: 50 bps to 921.6 Kbps RS-422/485: 50 bps to 1.8432 Mbps
UART	Octal, 64 Byte FIFO
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 14.702 cm/5.788" H: 10.605 cm/4.175"

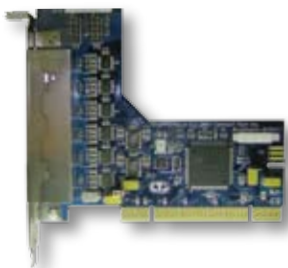
BlueStorm/SP Opto



BlueStorm/SP Opto is a high-speed multi-port communication adapter for standard profile PCI compatible computers. BlueStorm/SP Opto offers 4 ports of RS-232/422/485 connectivity, along with 3kV optical isolation.

Ports	4
Line Interface	RS-232/422/485, 3kV optical isolation
Control Signals	RS-232: Tx,Rx,RTS,CTS,GND RS-422/485: Tx \pm ,Rx \pm ,RTS \pm ,CTS \pm ,GND
Baud	RS-232: 50 bps to 921.6 Kbps RS-422/485: 50 bps to 1.8432 Mbps
UART	Dual, 64 Byte FIFO
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 14.702 cm/5.788" H: 10.605 cm/4.175"

BlueStorm/SP RJ-11



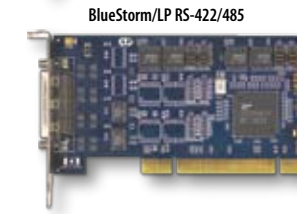
BlueStorm/SP RJ-11 is a high-speed multi-port communication adapter for standard profile PCI compatible computers. BlueStorm/SP RJ-11 offers 8 independently configurable ports of RS-232 serial connectivity, along with +5 VDC or +12 VDC power on six RJ-11 ports.

Ports	8
Line Interface	RS-232, 6 RJ-11 connectors/2x10 pin headers
Control Signals	Tx,Rx,RTS,DSR,GND,DC Power 10 Pin Header: Tx,Rx,RTS,CTS,DTR,DSR,DCD,RI,SG
Baud	50 bps to 921.6 Kbps
UART	Octal, 64 Byte FIFO
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 12.129 cm/4.775" H: 10.668 cm/4.2"

BlueStorm/LP RS-232 & RS-422/485



BlueStorm/LP RS-232



BlueStorm/LP RS-422/485

BlueStorm/LP is a high-speed multi-port Universal PCI adapter designed for low profile and standard height PCI computers. BlueStorm/LP is available in 2, 4 and 8 port RS-232 serial interface models, as well as 1 plus 1, 2 plus 2, and 4 plus 4 RS-232 plus RS-422/485 serial interface models.

Ports	2/4/8
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 12.72 cm/5.01" W: 1.50 cm/.59" H: 6.44 cm/2.54"

Ports	Line Interface	Control Signal	Baud	UART
BlueStorm/LP RS-232*				
2	RS-232	Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND	50 bps to 921.6 Kbps/Custom	Dual/Quad/Octal 64 Byte FIFO
4	RS-232	Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND 2+2 Ports RS-232+RS-422/485	50 bps to 921.6 Kbps/Custom	Dual/Quad/Octal 64 Byte FIFO
8	RS-232	Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND 4+4 Ports RS-232+RS-422/485	50 bps to 921.6 Kbps/Custom	Dual/Quad/Octal 64 Byte FIFO
BlueStorm/LP RS-422/485*				
2	RS-422/485	TxD \pm ,RxD \pm ,RTS \pm ,CTS \pm ,GND	50 bps to 1.8432 Mbps/Custom	Dual/Quad/Octal 64 Byte FIFO
4	RS-422/485 2+2 Ports RS-232+RS-422/485	TxD \pm ,RxD \pm ,RTS \pm ,CTS \pm ,GND	50 bps to 1.8432 Mbps/Custom	Dual/Quad/Octal 64 Byte FIFO
8	RS-422/485 4+4 Ports RS-232+RS-422/485	TxD \pm ,RxD \pm ,RTS \pm ,CTS \pm ,GND	50 bps to 1.8432 Mbps/Custom	Dual/Quad/Octal 64 Byte FIFO

*Low profile models are available with standard height brackets.



BlueStorm/Express

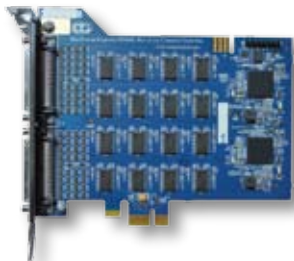


BlueStorm/Express is a standard profile PCI Express serial card available in 2, 4, 8 or 16 ports of RS-232/422/485 connectivity.

Ports	2/4/8/16
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	2/4 Port - L: 10.86 cm/4.275" H: 10.92 cm/4.300" 8/16 Port - L: 14.699 cm/5.787" H: 11.1125 cm/4.375"

Ports	Line Interface	Control Signal	Baud	UART
2	RS-232/422/485	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND RS-422/485: (Tx,Rx,CTS,RTS)±,GND	RS-232: 1 Mbps RS-422/485: 7.8 Mbps	Dual PCIe 256 Byte TX and RX FIFOs
4	RS-232/422/485	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND RS-422/485: (Tx,Rx,CTS,RTS)±,GND	RS-232: 1 Mbps RS-422/485: 7.8 Mbps	Quad PCIe 256 Byte TX and RX FIFOs
8	RS-232/422/485	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND RS-422/485: (Tx,Rx,CTS,RTS)±,GND	RS-232: 921.6 Kbps RS-422/485: 1.843 Mbps	Octal PCI 64 Byte TX and RX FIFOs
16	RS-232/422/485	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND RS-422/485: (Tx,Rx,CTS,RTS)±,GND	RS-232: 921.6 Kbps RS-422/485: 1.843 Mbps	2x Octal PCI 64 Byte TX and RX FIFOs

BlueStorm Express 8/16 Port RS-232



BlueStorm/Express 8/16 Port RS-232 is a standard profile PCI Express serial card which offers 8 or 16 ports of RS-232 connectivity, and is compatible with any PCI Express slot.

Ports	8/16
Line Interface	RS-232
Control Signals	TxD, RxD, RTS, CTS, RI, DTR, DSR, DCD
Baud	50 bps to 1 Mbps
UART	Octal, 256 Byte FIFO
Temperature	-40°C to 85°C (-40°F to 185°F)
Dimensions	L: 14 cm/5.5" H: 10.7 cm/4.2"

BlueStorm/Express Opto



BlueStorm/Express Opto is a standard profile PCI Express serial card which offers 4 ports of RS-232/422/485 connectivity, along with 3kV optical isolation. These x1 lane cards are compatible with x1, x4, x8, x16 lane PCI Express slots.

Ports	4
Isolation	3kV
Line Interface	RS-232/422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS,GND RS-422/485: (Tx,Rx,RTS,CTS)±,GND
Baud	RS-232: 921.6 Kbps, RS-422/485: 1.843 Mbps
UART	2x Dual PCI, 64 Byte TX and RX FIFOs
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 14.699 cm/5.787" H: 11.049 cm/4.350"

BlueStorm/Express Opto (1kV)



BlueStorm/Express Opto (1kV) is a standard profile PCI Express serial card which offers 8 ports of RS-232/422/485 connectivity, along with 1kV optical isolation on 4 of 8 ports.

Ports	8
Isolation	1kV (4 Ports)
Line Interface	RS-232/422/485
Control Signals	RS-232: Isolated: Tx,Rx,RTS,CTS,GND Non-Isolated: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND
Baud	RS-232: 921.6 Kbps
UART	Octal PCI, 64 Byte TX and RX FIFOs
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 14.702 cm/5.788" H: 10.605 cm/4.175"

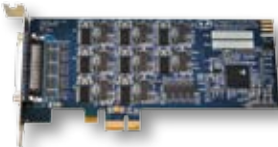
BlueStorm/Express Isolated



BlueStorm/Express Isolated is a standard profile PCI Express serial card which offers 8 ports of RS-232 connectivity, along with 2kV optical isolation on all 8 ports.

Ports	8
Isolation	2kV isolation, 3kV on board
Line Interface	RS-232
Control Signals	Tx,Rx,RTS,CTS,DCD,DTR
Baud	RS-232: 1 Mbps
UART	Octal, 256 Byte FIFO, 265 Byte TX and RX FIFOs
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 14.699 cm/5.787" H: 11.049 cm/4.350"

BlueStorm/Express LP



BlueStorm/Express LP is a low profile PCI Express serial card which offers 8 ports of RS-232/422/485 connectivity.

Ports	8
Line Interface	RS-232/422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS,RI,DTR,DSR,DCD,GND RS-422/485: (Tx \pm ,Rx \pm ,CTS \pm ,RTS) \pm ,GND
Baud	RS-232: 1 Mbps, RS-422/485: 7.8 Mbps
UART	Octal PCI, 64 Byte TX and RX FIFOs
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 14.699 cm/5.787" H: 6.891 cm/2.713"

BlueStorm/Express LP Opto



BlueStorm/Express LP Opto is a low profile PCI Express serial card which offers 2 ports of RS-232/422/485 connectivity, along with 3kV optical isolation on both ports.

Ports	2
Line Interface	RS-232/422/485
Control Signals	RS-232: Tx,Rx,RTS,CTS,GND RS-422/485: (Tx,Rx,CTS,RTS) \pm ,GND
Baud	RS-232: 1 Mbps RS-422/485: 7.8 Mbps
UART	Dual PCIe, 265 Byte TX and RX FIFOs
Temperature	0°C to 70°C (32°F to 158°F)
Dimensions	L: 15.7 cm/6.2" H: 6.9 cm/2.7"

Simplify and Accelerate the Development Process

Incorporate various form factors into your PC/104 stack, including MiniPCI, MiniPCle and mSATA



... or use PC/104 in a desktop ISA, PCI or PCI Express slot with an adapter board from our extensive line of development tools and adapters.

NEW! SUMIT to PCIe/104 Adapter

- Function:** Integrate a PCIe/104 or PCI/104-Express card into a SUMIT-104 system
- Bus:** PCIe/104 or PCI/104-Express compatible
- Dimensions:** L: 9.02cm (3.55") W: 9.6cm (3.78")
- Connector:** SUMIT A and B, PCIe/104 x1
- Features:** 2 x USB (from SUMIT) via Mini USB connectors



NEW! PCIe/104 to PCI Express Cable Adapter

- Function:** Provides an interface from the PCIe/104 (PCI/104-Express) bus to a PCI Express cable connection
- Bus:** PCIe/104 and PCI/104-Express compatible
- Dimensions:** L: 9.02cm (3.55") W: 9.5885cm (3.775")
- Connector:** PCIe cable connector, PCI-104/Express 156 pin top and bottom connectors
- Features:** x1 PCIe/104 lanes connected via PCI Express cable



NEW! PCIe/104 Bus Extender

- Function:** Allows one additional card height spacing between peripherals in a PCIe/104 or PCI/104-Express stack
- Bus:** PCIe/104 and PCI/104-Express compatible
- Dimensions:** L: 9.02cm (3.55") W: 1.4605cm (.575")
- Connector:** 156 pin PCIe/104 bottom connector
- Features:** PCIe/104 x16 bus connector



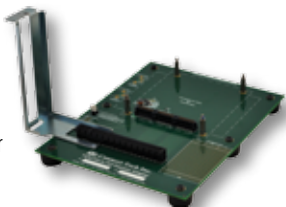
PCI Express to PCIe/104 Adapter

- Function:** Install a PCIe/104 or PCI/104-Express card into a standard PCI Express slot
- Bus:** PCIe/104 and PCI/104-Express compatible
- Dimensions:** L: 11.11cm (4.375") W: 10.29cm (4.050")
- Connector:** PCIe/104 156-pin / PCI-104 120-pin
- Features:** x1 lane PCI Express card edge for installation in any slot width



PCIe/104 to PCI Express Adapter - Bottom Stacking

- Function:** Install a PCI Express card into a PCIe/104 or PCI/104-Express single board computer system in a stack down configuration
- Bus:** PCIe/104 and PCI/104-Express compatible
- Dimensions:** L: 19.3cm (7.6") W: 15.2cm (6")
- Connector:** 156 pin PCIe/104 top connector; footprint for 2x USB Type B connector
- Features:** x16 lane vertical PCI Express card edge (supports x1, x4, x8 or x16)



PCIe/104 to PCI Express Adapter - Top Stacking

- Function:** Install a PCI Express card into a PCIe/104 or PCI/104-Express single board computer system in a stack up configuration
- Bus:** PCIe/104 and PCI/104-Express compatible
- Dimensions:** L: 9.5885cm (3.775") W: 9.017cm (3.550")
- Connector:** 156 pin PCIe/104 bottom connector
- Features:** x16 lane vertical PCI Express card edge (supports x1, x4, x8 or x16)



PCIe/104 to Mini-PCIe Card Adapter

- Function:** Allows a Mini-PCIe (PCI Express Mini Card) to be operated in a PCIe/104 (PCI/104-Express) card stack
- Bus:** PCIe/104 (PCI/104-Express)
- Dimensions:** L: 9.02cm (3.55") W: 9.60cm (3.78")
- Connector:** PCIe/104
- Features:**
- 3.3V (at 3A) and 1.5V (at 1A) DC power
 - Power is drawn from the PCIe/104 Bus connector
 - Half-Mini and Full-Mini PCIe card supported
 - SIM card support, USB, and PCI bus pass-through (all optional)



PCI to PC/104-Plus Adapter

- Function:** Install a PCI-104 or PC/104-Plus serial card into a standard Universal PCI slot
- Bus:** PCI to PC/104-Plus
- Dimensions:** L: 10.69cm (4.2") W: 12.48cm (4.913")
- Connector:** PCI-104, 120 pin and PC/104, 64 and 40 pin stack-through connectors
- Features:** Compatible with standard Universal 3.3V or 5V slot



ISA to PC/104 Adapter

- Function:** Install an 8 or 16-bit PC/104 card into a standard ISA system
- Bus:** ISA to PC/104 bus
- Dimensions:** L: 15.62cm (6.145") W: 10.68cm (4.2")
- Connector:** PC/104, 64 and 40 pin passive stack-through connectors
- Features:** 16x11 (.100" grid) breadboarding area for assembly and testing



PC/104-Plus to Mini PCI Adapter

- Function:** Install a Mini PCI card into a standard PCI/104-Plus stack
- Bus:** PCI/104-Plus to Mini PCI
- Dimensions:** L: 9.02cm (3.55") W: 9.60cm (3.78")
- Connector:** PC/104-Plus, 120 pin and PC/104, 64 and 40 pin stack-through connectors
- Features:** 3.3V regulator delivers 2 watts of power to the Mini PCI card



PCI Dump Switch Card

- Function:** Allows debugging during system hang-ups
- Bus:** Universal PCI
- Dimensions:** L: 11.99cm (4.72") W: 6.44cm (2.54")
- Connector:** Transparent PCI to PCI bridge
- Features:** Universal 32-bit PCI card (PCI 2.3 compliant)



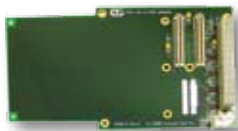
PCI Express Dump Switch Card

- Function:** Allows debugging during system hang-ups
- Bus:** PCI-Express
- Dimensions:** L: 6.7cm (2.64") W: 6.8cm (2.68")
- Connector:** Transparent PCIe to PCI bridge
- Features:** x1 lane PCIe (PCI Express 1.0 compliant)



PCI-104 to PMC Adapter

- Function:** Easily install a PMC card into a PCI-104 or PC/104-Plus stack
- Bus:** PCI-104 and PC/104-Plus compatible
- Dimensions:** L: 9.02cm (3.550") W: 16.58cm (6.526")
- Connector:** PCI-104 120 pin stack-through / 2x64 pin passive PMC connectors
- Features:** Operates multiple PMC cards in a PCI-104 stack with multiple adapters



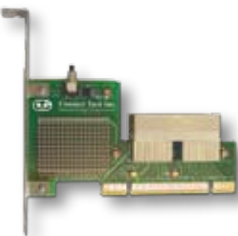
PCI Express Burn-in Rack Adapter

- Function:** Burns up to 10 (15W or 25W) PCI Express cards simultaneously with lane widths from x1 to x16 in any combination
- Bus:** PCI-Express
- Dimensions:** L: 31.5cm (12.4") W: 13.97cm (5.5")
- Connector:** Standard ATX power supply connectors to power common components
- Features:** Quick verification of power conditions and lane widths via on board LEDs



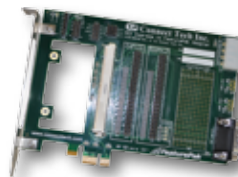
PCI to CompactPCI Adapter

- Function:** Install a CompactPCI card into a standard Universal PCI system
- Bus:** PCI to CompactPCI bus
- Dimensions:** L: 12.00cm (4.721") W: 6.40cm (2.525")
- Connector:** CompactPCI 110 pin male A connector for connection to host system
- Features:** 16x11 (.100" grid) breadboarding area for assembly and testing



PCI Express to FeaturePak Adapter

- Function:** Converts any FeaturePak Module to PCI Express
- Bus:** PCI-Express
- Dimensions:** L: 11.05cm (4.350") W: 15.2cm (6")
- Connector:** 2mm + .1" FeaturePak IO headers, 2x Micro B USB, JTAG, ATX Power, DB-9
- Features:** All 100 FeaturePak IO signals are brought out to vertical headers



Technical Support

Connect Tech upholds its reputation for providing exceptional customer service and support. Our highly trained technical support team is dedicated, knowledgeable and experienced. They are up to date on the latest in hardware and software technologies. We offer free technical support worldwide and are accessible Monday to Friday, 8:30 am to 5:00 pm EST by telephone, fax and email. Visit our web site for current product manuals, installation guides and software drivers. Connect Tech supports the most popular operating systems, including:



Connect Tech Satisfaction Guarantee

The key to our success: we're driven by the belief that customer satisfaction is as important as quality products. We build solid relationships with our customers by providing quality products around the world, backed by exceptional customer support.

Quality Assurance

Connect Tech Inc. is ISO 9001:2008 certified

All CTI products undergo critical testing and inspection programs to ensure product quality, performance and reliability. Connect Tech's commitment to quality is recognized globally through our ISO 9001:2008 certification. Visit our website to view our FCC, CE and UL approved products.

Global Service

Connect Tech acknowledges that being at arms length with customers enables the ability to provide faster quotes, shorter lead times and lower shipping costs. Connect Tech has made partnerships around the world to ensure you are served in a timely and cost-effective manner.

Lifetime Warranty

Connect Tech offers a Lifetime Warranty for our hardware products. We warrant each product to be in good working order for the product's life cycle. Visit our web site at www.connecttech.com for details.



Connect Tech Inc.