



DTI's TreXpress-4 low profile (4U) chassis is designed for use with high performance PCI Express single board computers and high I/O bandwidth add-in cards. Part of DTI's industrial rackmount chassis product family, the system provides exceptional capacity and expandability in a rack-efficient 4U, compact package ideal for applied computing applications. The modular design supports reliability and serviceability.

PICMG 1.3 Rackmount System

Product Features

Form Factor

4U PICMG 1.3 Rackmount System

Markets

- Surveillance and Security
- Electric Utility Monitoring
- Network Management and Billing
- Industrial Automation
- Command and Control System

CPU Options

LHE8912: Intel® Core 2 Duo™ based SBC

LHE8921: Quad-Core Intel® Xeon® based SBC

Backplane

PBPE-07 (Graphics)

- Compatible with the LHE8912 and LHE8921
- Passive PICMG 1.3 Backplane
- PCI-E x 4 (1); PCI-E x 16 (1)
- Four (4) PCI slots (32 bit/33 MHz)
- Four (4) USB Ports
- Two (2) SATA Ports

PBPE-08 (DATA/Server)

- Compatible with the LHE8921
- Passive PICMG 1.3 Backplane
- Server Grade Backplane
- PCI-E x 4 (1); PCI-E x 8 (2)
- Four (4) PCI slots (32 bit/33 MHz)
- Four (4) USB Ports

Chassis Construction

Heavy duty steel

Power

Single 460W AC or Redundant 450W Power Supplies (PFC AC or -48VDC)

Physical Dimensions

6.88" H x 16.9" W x 18.75" D

Operating System Support

Windows XP SP2, SP3,
Ubuntu 9, Linux 2.6, QNX

Warranty

Parts and labor covered for 2 years

CPU Options

- LHE8912:** Intel® Core 2 Duo™ based SBC
- LHE8921:** Quad-Core Intel® Xeon® based SBC

* see board data sheets for more information on CPUs

Dimensions

- 6.88" H x 16.9" W x 18.75" D
(175mm x 430mm x 476mm)
behind front panel
- 18.98" D overall (482mm)

Weight

- 50.7lbs (23kg) w/1PSU, 57.3lbs (26kg)
with redundant PSUs

Construction/Finish

- Heavy duty steel
- Removable mounting brackets
- Black (standard)

Backplane

PBPE-07

- Compatible with the LHE8912 and LHE8921
- PCI-E x 4 (1); PCI-E x 16 (1)
- Four (4) PCI slots (32 bit/33 MHz)
- Four (4) USB Ports
- Two (2) SATA Ports

PBPE-08

- Server Grade Backplane
- Compatible with the LHE8921
- PCI-E x 4 (1); PCI-E x 8 (2)
- Four (4) PCI slots (32 bit/33 MHz)
- Four (4) USB Ports

* Contact DTI for additional backplane options

Peripherals/Other

- External: Three 5.25" drive bays
One 3.5" floppy bay
- Internal: One 3.5" x 1" drive bay
(available only with single power supply)

Controls/Indicators

- Front power on/off (recessed)
- Front reset switch (recessed)
- System power on LED
- HD activity LED

I/O

- One front panel USB port
- Two serial ports and one parallel port on rear panel (optional)
- Rear panel AC or DC power inlet
- All other I/O is based on installed boards

Thermal Management

- Two 120mm (90cfm) ball-bearing fans
- Front to rear cooling
- Replaceable air filter on front

Power Supply

Single

- Max output: 460W PFC +5V/40A,
+12V/27A, +3.3V/30A, -5V/0.8A, -12V/1.0A,
+5VSB/2.0A
- Input Voltage: 100 - 240VAC
- Input Frequency: 47Hz - 63Hz
- Input Current: 8A max/115V, 4A max/230V
- Efficiency: 71% typical
- MTBF: >98,300 at 75% max. output at
25°C (70°F) ambient temperature

Redundant AC or DC

- Max output: 450W
+5V/45A, +12V/25A, +3.3V/25A, -5V/1A,
-12V/2A, +5VSB/2.5A
(combined 5 & 3.3 not to exceed 250W)
- Input Voltage: 115/230VAC: -36 to 60VDC
- Input Frequency: 60Hz/50Hz
- Input Current: 9 max/115V, 5A max/230V,
20A max DC
- Efficiency: 75% min.
- MTBF: >167,000 at 75% max. output at
25°C (70°F) ambient temperature

Environmental

Operating

- Temperature: -5° to 40°C
- Humidity (RNC):
10% to 90% non-condensing
- Altitude: 3,000m / 10,000 ft @40°C
- Shock: 10g 11ms half-sine
- Vibration: 5-100Hz @ ½g sine sweep
Random 5-20Hz @ 0.01g2/Hz;
20-500 -3dB slope
- Acoustic:
2184: 70dBA @ 24" or
<60dBA with speed control
4194: <60dBA @ 24"

Storage and Transit

- Temperature: -20° to 70°C
- Humidity (RNC):
10% to 90% non-condensing
- Altitude: 12,192m / 40,000 ft
- Shock: 20g 6ms half-sine, 500/axis
- Vibration: Random 5-20Hz @ 0.01g2/Hz;
20-500 -3dB slope

Regulatory Compliance (pending)

- CE Certification with national deviations
- Safety: UL/cUL 60950-1:2007;
EN/IEC 60950-1:2006
- EMI/EMC: FCC 47 CFR Part 15 Class A;
EN 55022:2006; EN 50024:1998

Ordering Information

TreXpress-4C2

4U system packaged with LHE8912 SBC based on Intel Core 2 Duo Processor

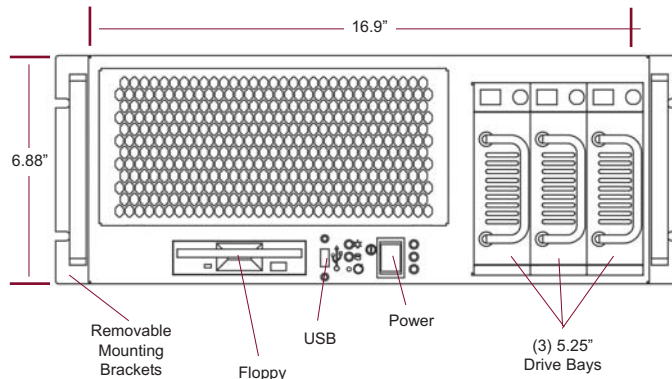
TreXpress-4QC

4U system packaged with LHE8921 SBC based on Quad-Core Intel Xeon Processor

Standard Configuration Includes

- 4U Chassis
- Processor Board
- 1GB SDRAM
- Gigabit Ethernet Port(s)
- Available PCI Slots
- CDROM
- 460W Power Supply
- 250GB SATA Drive

Front



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