

## 2U Industrial Rackmount Computer

# CRM/FTS-2184



- 3.45" H x 16.9" W x 18.5" D Chassis
- Supports 5-slot "Butterfly" Backplanes
- Supports a Micro-FDD, a Micro-CDROM and Two Internal 3.5" Hard Drives
- Two 80CFM 80mm Ball-bearing Fans with large filtered front air intake area
- Protected Power On/Off and Reset Switches, Front Accessible USB Port
- Two LEDs for Power On/Off, HD Activity(Optional Alarm LEDs)
- Single 300W, Redundant 300W Power Supplies (PFC AC), or 230W -48VDC
- Supports DTI Full-Length PCI/ISA Single Board Computers

*Diversified Technology's CRM/FTS-2184 low profile (2U) chassis is designed for use with DTI's high performance PCI single board computers and high I/O bandwidth PCI bus add-in cards. Part of DTI's industrial rackmount chassis product family, the system provides exceptional capacity and expandability in a rack-efficient 2U, compact package ideal for applied computing applications. The modular design supports reliability and serviceability.*

The CRM/FTS-2184 chassis is highly configurable by providing support for a micro-floppy drive, a micro-CDROM drive and two 3.5" internal drives to accommodate RAID solutions. A USB port, power on/off switch, hard drive activity and power on LED indicators complete the front panel. A door on the front of the unit prevents casual access to these interfaces.

The compact 2U chassis features an open architecture design that supports industry standard PICMG single board computers and full-length I/O cards. Several backplane options are available to fit the need of the application. For high performance applications, DTI offers a backplane that supports up to four 64-bit PCI slots running up to 66MHz for high performance I/O Cards. Other backplanes are available that support up to three 64-bit/33MHz (or 32-bit) PCI slots and up to two ISA slots.

Constructed of heavy-duty steel, the CRM/FTS-2184 chassis has an easily removable top cover for ease of configuration, installation, and maintenance of the SBC and add-in cards. DTI has also designed the chassis to support high reliability, availability and serviceability (RAS) environments with redundant components. Two front 80mm fans, with replaceable filter, provide excellent cooling for today's high performance CPUs and expansion cards. DTI's single board computers monitor the fans and the case temperature and can trigger an alarm (LED) if the thermal conditions are out of range. Power is provided by either a single 300W power factor corrected or redundant 300W power factor corrected AC (or 230W DC) ATX universal power supplies.

Rackable and stackable with a small footprint and compatible with Diversified Technology's LBC full-length SBC's, the CRM/FTS-2184 industrial chassis is the space-saving choice for OEMs addressing medical/laboratory/imaging, industrial control and automation, data acquisition, COTS military/aerospace, and communication, Internet/intranet infrastructure markets. A two year limited warranty is included.



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## SPECIFICATIONS

### Dimensions

- 3.45" H x 16.9" W x 18.5" D  
(88mm x 430mm x 470mm)

### Weight

- 22lbs (10kg) w/1PSU, 31lbs (14.1kg) with redundant PSUs

### Construction/Finish

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

### Backplane (FBP4A)

- 4 full-length PCI slots (64 bit/66 MHz)
- 1 CPU slot

### Backplane (PBP/SBP5A)

- Up to 3 PCI Slots (PBP-32bit, SBP-64bit)
- Up to 2 ISA Slots

### Peripherals/Other

- External: One 3.5" Micro-floppy bay  
One Micro-CDROM
- Internal: Two 3.5" x 1" drive bay

### Controls/Indicators

- Front power on/off (behind door)
- Front reset switch (behind door)
- System power on LED
- HD activity LED
- Optional system monitor LED's

### I/O

- One front panel USB port
- Rear panel AC or DC power inlet
- All other I/O is based on installed boards or brackets. Brackets available for serial and parallel ports

### Thermal Management

- Two 80mm (80cfm) ball-bearing fans
- Front to rear cooling
- Replaceable air filter on front

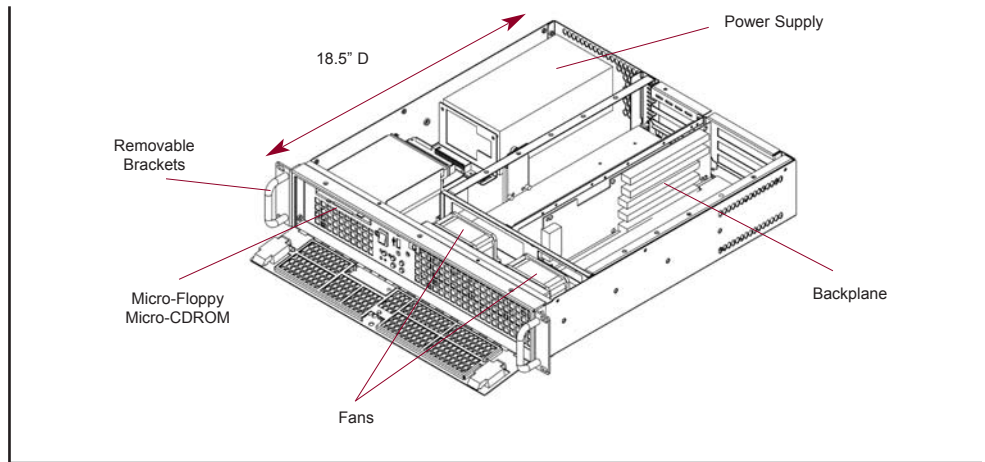
### Power Supply

#### Single

- Max output: 300W PFC  
+5V/35A, +12V/16A, +3.3V/20A, -5V/.5A, -12V/1A, +5VSB/1.2A  
(combined 5 and 3.3 not to exceed 35A)
- Input Voltage: 100 - 240VAC
- Input Frequency: 47Hz - 63Hz
- Input Current: 6A max/115V, 3A max/230V
- Efficiency: 63% typ
- MTBF: >100,000 at 75% max. output at 25°C (70°F) ambient temperature

#### Redundant AC

- Max output: 300W PFC  
+5V/32A, +12V/16A, +3.3V/20A, -5V/.5A, -12V/.5A, +5VSB/1.5A  
(combined 5 and 3.3 not to exceed 32A)



### Power Supply (cont'd)

- Input Voltage: 115/230VAC:
- Input Frequency: 60Hz/50Hz
- Input Current: 7A max/115V, 3.5A max/230V
- Efficiency: 63% min.
- MTBF: >150,000 at 75% max. output at 25°C (70°F) ambient temperature

### Redundant DC

- Max output: 230W  
+5V/30A, +12V/14A, +3.3V/20A, -5V/.5A, -12V/.5A, +5VSB/1A  
(combined 5, 3.3, & 12 not to exceed 217W)
- Input Voltage: -40 to -56VDC:
- Input Current: 8A max
- Efficiency: 75% min.
- MTBF: >167,000 at 75% max. output at 25°C (70°F) ambient temperature

### Environmental

#### Operating

- Temperature: 0° to 40°C/32° to 104°F
- Humidity (RNC): 5 to 95% @ 40°C/104°F
- Shock: 15G, 11ms
- Vibration: 1G continuous @ 5-100Hz
- Acoustic Noise: 74dB at 24" in front at full load

#### Storage and Transit (in approved packaging)

- Temperature: -40° to +70°C/-38° to 158°F
- Humidity (RNC): 5 to 95% @ 40°C/104°F
- Altitude: 15,240m / 50,000ft
- Shock: 24" free-fall
- Vibration: 0.5G 5-50Hz, 3G 50-500Hz

### Regulatory Compliance

#### Safety

- UL/cUL60950-1:2003,EN/IEC 60950-1:2001

#### EMC Class A

- FCC 47 CFR part 15-B, CISPR22:1997/EN55022:1998, EN55024:1998

### Ordering Information

#### CRM-2184-AC

AC chassis with 300W single PS

#### FTS-2184-AC

AC chassis with 300W redundant PS

#### FTS-2184-DC

DC chassis with 230W redundant PS

### Backplanes:

**FBP4A:** (4) 64bit/66MHz PCI, CPU

**PBP5A:** (3) 32bit/33MHz PCI, 2 ISA, CPU

**SBP5A:** (3) 64bit/33MHz PCI, 2 ISA, CPU

### Options

Micro-CDROM

Micro-FDD

3.5" x 1" HD

Memory

Alarm LED kits



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