

# C0818D

## 16 + 2 Slot **CompactPCI**® Packet Switched Backplane Platform



The C0818D features our fail-safe OptiCool™ design, CPCI boards not included with chassis.

### Ordering Information

#### C0818D

8U, 16 + 2 slot 18-slot CPCI PSB enclosure

#### Power Subsystem Options

##### PSU-AC

Four 200W N+1 AC power supplies

##### PSU-DC

Four 200W N+1 -48VDC power supplies

##### PIM-AC

Redundant AC isolated input modules

##### PIM-DC

Redundant DC isolated input modules

##### PIM-UPS

AC input module and an embedded UPS kit

#### Control & Monitoring Options

##### IBC-2501

Chassis Management Controller, IPMI v.1.0 compliant Module.



### Specifications

#### Dimensions

- 8U Height
- 14" x 17.1" x 12" (hwd)
- 356 x 434 x 304 mm

#### Enclosure

- 16-slot card area + 2 Switch Fabric Slots
- 4 power supplies with dual input modules
- ESD grounding locations (front & rear)
- Alarm panel used with optional Chassis Management Controller (CMC)
- Front power switch
- Rear circuit breaker(s)

#### Systems

- Available as systems using:
- IBC2801 & 2802 PIII based SBCs
  - CP20XX SPARC based SBC with third party RIO board
  - Windows NT & 2000, Solaris and Linux operating systems
  - Optional HA middleware : Windows 2000 Advanced Server, RedHat Linux OS

#### Backplane

- Integrated 8 + 8-slot CPCI segmented backplane
- System slots #1 and #9
- 14 full hot-swap I/O slots
- 7 + 7-slot segmented H.110 backplane
- Fully PICMG 2.16 PSB Compliant

#### Fail-Safe OPTICOOL™ Cooling

- Patented push-mix-pull cooling technology
- 8 + 2 fan, hot-swap cooling array in air intake
- Patented air flow mixing and directing tray
- 3 individually hot-swap blowers
- Optional blower and fan speed control with I-Bus CMC

#### DC Power Subsystem

- Four Hot-swap redundant -48VDC power supplies
- N+1 Redundant (N=3) 200W supplies
- Dual feed power inputs
- Input Voltage: -36 to 72 VDC auto-ranging
- Output Power: +3.3V@30A, +5V@25A, +12V@5.5A, -12V@0.5A (each supply)
- Combined power of +5 and +3.3V not to exceed 35A total per supply

#### Operating Environment

- Temperature: 0 to 40° C
- Humidity: 5% to 85% @40°C(non-condensing)
- Shock: 10g @11ms
- Vibration: 0.25G @2-100Hz, 1.5g@100-500Hz

#### Standards Compliance

- PICMG 2.0 R 3.0, PICMG 2.1 R 2.0, PICMG 2.5 R 1.0, PICMG 2.9 R1.0, PICMG 2.10 R 1.0, PICMG 2.11 R 1.0, PICMG 2.16 R 1.0
- ESD: CE
- EMI: CE, FCC, UL/CUL
- Safety: UL/CUL, CE, CB
- NEBS



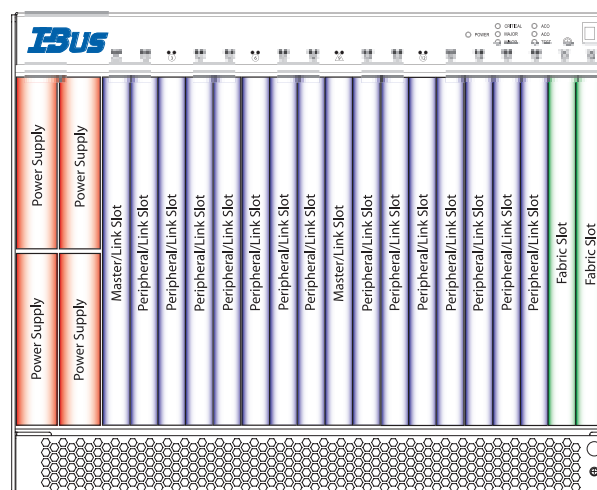
## C0818D

### 16 + 2 Slot **CompactPCI®** Packet Switched Backplane Platform

The state-of-the-art Continuum™ 0818D CompactPCI PSB platform is the highest density Packet Switched Backplane platform on the market today, and the first to employ I-Bus patented Fail-Safe OptiCool™ technology. In 8U of space, the C0818D boasts high availability features to cater to the "five nines" requirements of the communications, network, broadcast and medical/industrial OEM. All critical modules on the C0818D are easily accessible and fully hot-swap capable. The C0818D supports full I/O card hot-swap to PICMG 2.1 R2.0, dual hot-swap power input modules and N+1 redundant hot-swap power supplies.

In 8U the most critical component is the cooling. I-Bus continues to lead the CompactPCI market with the patented Fail-Safe OptiCool™ method of push-mix-pull cooling. Fail-Safe Opticool incorporates a unique lower hot-swap fan array that takes advantage of the axial direction of the fans to most efficiently pressurize the air at the bottom of the chassis. The unique mixing tray can be tuned to mix the intake air, redirect the air upward and distribute the air to where it is needed most, even in the event of a single fan failure. To direct the air through the cards, drives and power supplies, three individually hot-swappable blowers pull the low pressure air upward and direct it toward the rear of the chassis. Optimization of cooling, noise and blower life expectancy is achieved with the addition of the optional I-Bus Chassis Management Controller (CMC), which provides independent speed control for the individual blowers and the fan array. The CMC is added in its dedicated slot at the rear of the chassis.

With all of these high-availability features, the C0818D excels in applications requiring small size, optimal cooling, high density and the highest levels of reliability, serviceability and maintainability, ensuring the greatest level of application availability. Additional features include a 16 + 2 slot CPC/H.110 backplane, full rear I/O module support, front to back airflow, NEBS compliance and the I-Bus standard warranty. Combine the C0818D with the IBC series of award winning single board computers, fully compliant PICMG 2.12 R1.0 hot-swap middleware, Linux, Solaris and Windows HA middleware as well as our extensive list of third party application cards for a truly application ready platform.



### For Further Information



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