

# C0817

## Turnkey Compute Farm Platform



The C0817 is the first I-Bus enclosure to support up to 17x IBC2802 CPU boards

### Ordering Information

**C0817**

8U, 17-slot CPCI enclosure

**Power Subsystem Options**

**PSU-AC**

Four 200W N+1 AC power supplies

**PSU-DC**

Four 200W N+1 -48VDC power supplies

**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**

- 17-slot card area
- 4 power supplies
- 2 Rear power input bays
- ESD grounding locations (front & rear)
- Alarm panel used with optional Chassis Management Controller (CMC)
- Front power switch
- Designed to meet NEBS/ETSI standards

**Systems**

- Available as systems using:
- IBC 2600, 2601 & 2801 PIII based SBCs
  - CP 1500, 20xx SPARC based SBC
  - Windows NT & 2000, Solaris and Linux operating systems

**Backplane**

- Integrated 18-slot backplane
- Supports one-slot system master (slot#1)
- 17 full hot-swap I/O slots
- 17-slot continuous H.110 backplane
- Rear low-profile pallet bridge between slots 7&8
- Dual power input connectors

**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

**Power Supply Subsystem**

- Four Hot-swap redundant power supplies
- N+1 Redundant (N=3) 200W supplies
- Input Voltage: 90-132/180-250 VAC auto-ranging, Optional -48VDC
- Output Power: +3.3V@30A, +5V@25A, +12V@6A, -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,
- ESD: CE
- EMI: CE, FCC, UL/CUL
- Safety: UL/CUL, CE, CB
- NEBS



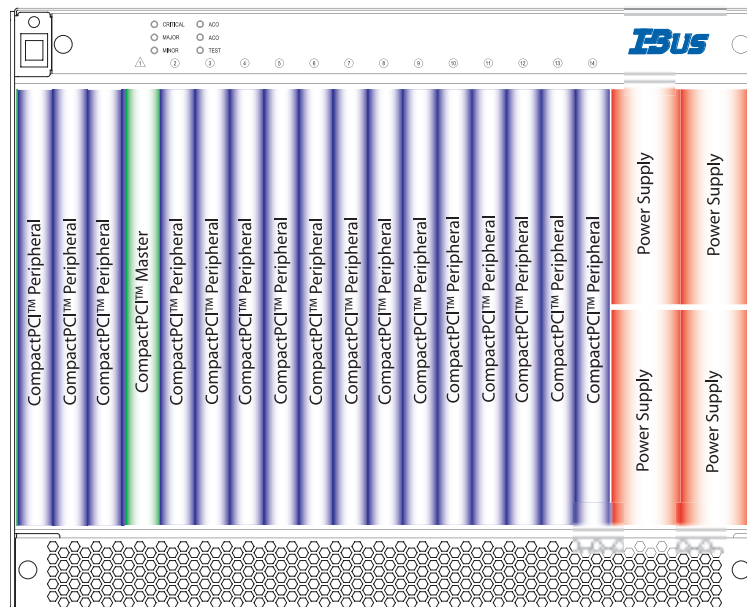
# C0817

## Turnkey Compute Farm Platform

The state-of-the-art C0817 CompactPCI platform is the highest density CompactPCI based system platform on the market today, and the first to employ I-Bus patented Fail-Safe OptiCool™ technology. In 8U of space, the C0817 boasts high availability features to cater to the "five nines" requirements of the communications, network, broadcast and medical OEM. All critical modules on the C0817 are easily accessible and fully hot-swap. The C0817 supports full I/O card hot-swap to PICMG 2.1 R2.0 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 and power supplies, three individually hot-swap 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 C0817 excels in applications requiring small size, optimal cooling, high density and the highest levels of reliability, ensuring the greatest level of application availability. Additional features include a 18-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 C0817 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 Turnkey Compute Farm Platform.



### For Further Information



#### Worldwide Headquarters

I-Bus Corporation  
 3350 Scott Blvd, Building 54  
 Santa Clara, CA 95054  
 United States  
 Phone : +1 (408) 450-7880  
 Fax : +1 (408) 450-7881  
**Toll Free: 877-777-IBUS**  
 Email: contact.us@ibus.com

#### European Headquarters

I-Bus UK Ltd  
 Unit 6, Chichester Business Park  
 City Fields Way, Tangmere  
 West Sussex, PO20 2LB, UK  
 Tel: +44 (0) 1243 756300  
 Fax: +44 (0) 1243 756301  
 Email: contact.uk@ibus.com

#### France, Italy

I-Bus France  
 B.P 45 Valbonne  
 06901 Sophia Antipolis CEDEX  
 France  
 Tel: +33 (0) 493 004 360  
 Fax: +33 (0) 493 004 369  
 Email: contact.fr@ibus.com