The OmniSys 4U enclosure is part of LCR Embedded Systems’ affordable family of customizable rugged industrial, NEBS enclosures which provide telecom, datacom, and military customers an open-standard ecosystem for application solutions development.

- Processor options include Intel Core i5/i7, Quad Core Processor
- Drive bays for slim DVD, two locking removable 2.5” SATA drives

### MIDPLANE

- (8) PICMG 2.16-compliant 6U slots, 64-bit/33MHz PCI (1 System, 1 Switch, 6 Peripheral)
- (8) RTM board support
- Other configurations available
- CompactPCI/VPX/VME

### POWER

- (2) 300W power supplies (CompactPCI) (single 600W or dual redundant 300W)
- Supports up to (7) 75W SBCs/Switch in 600W mode
- Ships with universal AC supplies standard
- 48V option on request

### COOLING

- Left-to-right (Push configuration)
- Washable filter for 80% dust arrestance
- (6) 4500rpm, 67 CFM, 0.4 in H20 fans
- 66 dBA full speed noise
- Fan tray accessible and easily removed for service

### INTERFACE

- Rear breaker control/protection
- Front-accessible power switch
- Input Power Good/Output Power Fault LED
- Run time indicator for scheduled maintenance
- Locking hinged front door

### PHYSICAL

- HWD: 4U x 19” x 15”
- Weight: <30 lb
- Materials: Aluminum frame
- Finish: Black powder coat, semi-gloss
- Mounting: Removable mounting flanges for rackmount apps, hinged door w/smoked window

### ENVIRONMENTAL

- Temperature: 0C to 55C (op), -40C to 70C (st)
- Humidity: 5-95% (op), 0-95% (st)
- Altitude: 4500m (op), hard-drive dependent (st)
- Shock: 20Gs @ 11ms (op), 20Gs @ 6ms (st), half-sine
- Vibration: 0.5Gs/Hz 5 to 100 Hz sine sweep
  - 0.04 G2s/Hz, 20-2000Hz (op), Random 5-20Hz @ 0.0132 G2s/Hz; 20-200 -3dB
- EMI/EMC: Designed to meet FCC 47 CFR Part 15 Class A, EN55-22 Class A, EN55024
The OmniSys 3U enclosure is part of LCR Embedded Systems’ affordable family of customizable rugged, industrial, NEBS enclosures which provide telecom, datacom, and military customers an open-standards ecosystem for application solutions development.

- Processor options include Intel Core i5/i7, Quad Core Processor
- Drive bays for slim DVD, two locking removable 2.5” SATA drives

### MIDPLANE

- (4) PICMG 2.16-compliant 6U slots, 64-bit/33MHz PCI (1 System, 1 Switch, 2 Peripheral)
- (4) RTM board support
- Other configurations available

### POWER

- (2) 300W power supplies (CompactPCI) (single 600W or dual redundant 300W)
- Supports up to (4) 75W SBCs/Switch in 600W mode
- Ships with universal AC supplies standard
- 48V option on request

### COOLING

- Left-to-right (Push configuration)
- Washable filter for 80% dust arrestance
- (3) 4500rpm, 67 CFM, 0.4 in H20 fans
- 66 dBA full speed noise
- Fan tray accessible and easily removed for service

### INTERFACE

- Rear breaker control/protection
- Front-accessible power switch
- Input Power Good/Output Power Fault LED
- Run time indicator for scheduled maintenance
- Locking hinged front door

### PHYSICAL

- HWD: 3U x 19” x 15”
- Weight: <30 lb
- Materials: Aluminum frame
- Finish: Black powder coat, semi-gloss
- Mounting: Removable mounting flanges for rackmount apps, hinged door w/smoked window

### ENVIRONMENTAL

- Temperature: 0C to 55C (op), -40C to 70C (st)
- Humidity: 5-95% (op), 0-95% (st)
- Altitude: 4500m (op), hard-drive dependent (st)
- Shock: 20Gs @ 11ms (op), 20Gs @ 6ms (st), half-sine
- Vibration: 0.5Gs/Hz 5 to 100 Hz sine sweep 0.04 G2s/Hz, 20-2000Hz (op), Random 5-20Hz @ 0.0132 G2s/Hz; 20-200 -3dB
- EMI/EMC: Designed to meet FCC 47 CFR Part 15 Class A, EN55-22 Class A, EN55024
2U VPX/VME/CompactPCI Chassis
COTS-based, Affordable, Quick-turn

The OmniSys 2U enclosure is part of LCR Embedded Systems’ affordable family of customizable rugged industrial, NEBS enclosures which provide telecom, datacom, and military customers an open-standard ecosystem for application solutions development.

- Processor options include Intel Core i5/i7, Quad Core Processor
- Drive bays for slim DVD, one removable 2.5” SATA drive

**MIDPLANE**

(3) PICMG 2.16-compliant 6U slots, 64-bit/33MHz PCI
(1 System, 2 Peripheral)
(1 System, 2 Peripheral, 1 Switch w/out I/O tray)

(3) RTM board support
Other configurations available
CompactPCI/VPX/VME

**POWER**

(2) 300W power supplies (CompactPCI)
(single 600W or dual redundant 300W)
Supports up to (3) 75W SBCs/Switch in 600W mode

Ships with universal AC supplies standard
48V option on request

**COOLING**

Left-to-right (Push configuration)
Washable filter for 80% dust arrestance

(3) 4500rpm, 67 CFM, 0.4 in H20 fans
66 dBA full speed noise
Fan tray accessible and easily removed for service

**INTERFACE**

Rear breaker control/protection
Front-accessible power switch on fan tray

Input Power Good/Output Power Fault LED
Run time indicator for scheduled maintenance
Locking removable front door

**PHYSICAL**

HWD: 2U x 19” x 15”
Weight: <30 lb
Materials: Aluminum frame

Finish: Black powder coat, semi-gloss
Mounting: Removable mounting flanges for rackmount apps, removable door w/smoked window

**ENVIRONMENTAL**

Temperature: 0C to 55C (op), -40C to 70C (st)
Humidity: 5-95% (op), 0-95% (st)
Altitude: 4500m (op), hard-drive dependent (st)
Shock: 20Gs @ 11ms (op), 20Gs @ 6ms (st), half-sine

Vibration: 0.5Gs/Hz 5 to 100 Hz sine sweep
0.04 Gs/Hz, 20-2000Hz (op), Random 5-20Hz @
0.0132 Gs/Hz; 20-200 -3dB

EMI/EMC: Designed to meet FCC 47 CFR Part 15
Class A, EN55-22 Class A, EN55024
## 6U Universal Enclosure
### Open Standards Development

The 6U Universal Chassis/Backplane Assembly provides an ideal, customizable solution for open-standards-based application development. Able to support 6U VPX, VME, CompactPCI, or custom backplanes, the enclosure provides between 2 and 21 slots depending on the specific standard.

### BACKPLANE
- **Form factor:** VPX, VME, CompactPCI, Custom
- **Card size:** 6U x 160mm
- **Fabric/Profile:** BKP6-CEN16-11.2.2-3 (shown)
- **Slot count:** 2-21

### POWER
- **Input power:** 85-264 VAC, 1/3 phase, 47-440 Hz
  - Optional DC input
- **Output power:** 5/3.3/±12 V
- **Filtering:** Input line filter
- **Breaker/Fuse:** 15 A circuit breaker
- **Intelligence:** I2C monitoring

### COOLING
- **Method:** Convection, forced air, bottom to top
- **Fans:** 4 Front, 171 CFM each
- **Watts per slot:** 100W
- **Monitoring/Control:** Local/Remote status via SNMP

### INTERFACE
- **I/O:** As needed
- **Switches:** ON/OFF/RESET
- **Indicators:** Power, System Status Interconnect
- **Displays:** As needed

### PHYSICAL
- **HWD:** 7U x 17.5” x 25.3”
- **Weight:** 35 lb
- **Materials:** Aluminum frame
- **Construction:** Bolted sheet metal
- **Finish:** Chemical conversion, IAW MIL-DTL-5541, Type II, Class 3
- **Slides:** Provisions for general devices slide C-874

### ENVIRONMENTAL
- **Temperature:** 0C to 50C (op), -20C to 70C (st)
- **Humidity:** 10-95% (op/st)
- **Altitude:** 6,000 ft
- **Shock:** 8Gs @ 11ms
- **Vibration:** 1.0 Gs/Hz 10 to 330 Hz
LCR EMBEDDED SYSTEMS OFFERS

Rugged Design Options
Custom Form Factors
Custom Backplanes and Electronics
Custom Standards
System Integration

Complete Testing Capabilities
Advanced Design Capabilities
Retrofit/Upgrade to 3rd Party Equipment
Complete Manufacturing Services Located in the USA

LCR Embedded Systems provides a limited, one-year warranty on its products. The complete warranty plus other terms and conditions of sale are available upon request. Contact your area LCR Embedded Systems Sales Representative for more information.