iConverter®

iConverter[®] 1-Module Redundant Power Chassis with Power-over-Ethernet (PoE/PD) Option

The iConverter 1-Module Redundant Power Chassis is ideal for mission-critical Customer Premises Ethernet services, and in applications where the monitoring of external events is required.

The chassis supports multiple power sources, 10/100 Ethernet ports and a wide variety of alarm options.

Power source options feature load-sharing combinations of Power-over-Ethernet (PoE), 9-24VDC and 24-60VDC. The PoE option is designed for applications where the converter chassis must be physically located where power is unavailable or is costly to install. Power is provided to one of the chassis' optional 10/100 network ports from a Power Source Equipment (PoE/PSE) such as a switch or a Mid-Span power injecting device.

The 9-24VDC power source can be connected via barrelstyle or terminal connectors. The barrel-style connector versions are shipped with US or universal AC/DC power adapters.

The two optional 10/100 RJ-45 network ports are available with or without PoE option on one of the ports. Auto-negotiation, 10/100 and Half/Full-Duplex modes can be configured for each port.

Four optional contact-closure alarm sensors are available for monitoring external events. These sensors can be used to monitor a backup battery, the state of an enclosure's door or other environmental device states. An SNMP trap can be selectively generated upon the occurrence of any of these monitored events.

The chassis can be remotely managed when an iConverter module with integrated management (such as the 10/100M2) is installed in the chassis. The management module provides monitoring, remote configuration and trap notification.

The monitoring of external events, redundant power, PoE and 10/100 network ports make the iConverter 1-Module Redundant Power Chassis ideal for mission-critical Service Provider and Enterprise network applications.



Module not included

KEY FEATURES

- 1-Module iConverter Redundant Power Chassis with dual redundant power source options
- Supports the following Power Options:
 - Power-over-Ethernet (IEEE 802.3af PoE/PD)
 - Low Voltage DC Power 9-24VDC (terminal or universal AC/DC adapter available)
 - High Voltage DC Power 24-60VDC
- Two (2) optional 10/100 Ethernet ports
- Four (4) optional contact closure alarm sensors
- Features Dying Gasp Trap support
- Managed via an installed iConverter Media Converter with Integrated Management (such as a 10/100M2)
- Management supports Monitoring, Remote Configuration and Trap Notification
- Commercial (0 to +50° C) and wide (-40 to +60° C) temperature ranges
- Made in the USA
- Lifetime Warranty and free 24/7 Technical Support



MANAGEMENT

Management provides remote configuration, monitoring and trap notification. Management of the chassis and module is available when a Network Interface Device (NID) is installed in the chassis.

The NID can be accessed via SNMP, Telnet and serial port. The chassis and module can be managed with Omnitron's intuitive, graphic-oriented NetOutlook[®] SNMP Management Software or third party SNMP management software. Management via the Telnet and the serial interfaces have an easy-to-use, menu-driven interface. Fixed parameters that can be monitored on the Redundant Power Chassis include the chassis type and model, manufacturing information, along with hardware and software revisions.

The management can monitor and configure the states of the 10/100 ports, monitor the power sources and generate traps upon different link, power, temperature and contact closure events.

APPLICATION EXAMPLES

Power-Over-Ethernet Applications

The figure below depicts an application where the chassis contains an iConverter 10/100M2 copper-to-fiber converter, and does not have access to a power source. In the top figure (A), chassis power is provided by a Mid-Span device inserted between the chassis and a standard switch to inject power into the UTP cable. In the bottom figure (B), the chassis is powered by a switch that supports PoE/PSE via the UTP cable.

Using Contact Closure Sensors

The figure below depicts an application where battery backup power is required, and the chassis is connected to an Uninterruptible Power Supply (UPS) battery. The battery provides power to sustain chassis operation in the event of a power outage. The UPS battery also provides alarm status for utility power, low battery reserve and battery error via the contact closures on the chassis.







SPECIFICATIONS

Description	iConverter 1-Module Redundant Power Chassis			
Standard Compliances	IEEE 802.3, 802.3af			
Regulatory Compliances	UL, CE, FCC Class A, AS/NZS 3548 and VCC1 Class A,			
Environmental	RoHS, WEEE and REACH			
Management*	IPv4 address, Telnet, SNMPv1/v2c/v3 In-Band via Ethernet port, Out-of-band via serial port			
Frame Size	Up to 1,536 bytes			
Port Types	Copper:	10/100BASE-T (RJ-45)		
	Sensors:	4 Contact Closures (8-Pin Terminal)		
Cable Types	Copper:	EIA/TIA 568 A/B, Category 5 and higher		
	Sensors:	16 to 24 gauge		
MTBF (hours)	Chassis: US AC Adapter: w/ Univ AC Adapter:	540,000 250,000 100,000		
Warranty	Lifetime warranty with 24/7/365 free Technical Support			

AC Power Requirements	AC Adapter:	100 - 240VAC/50 - 60Hz 0.2A @ 120VAC (typical)			
	DC Input: (Terminal Block)	9 - 24VDC, 1.5A @ 9VDC (typical) 2-Pin Terminal (non-isolated)			
DC Power Requirements	DC Input: (Terminal Block)	24 - 60VDC, 0.3A @ 48VDC 3-Pin Terminal (isolated)			
	DC Input: (AC Adapter)	9 - 24VDC, 1.5A @ 9VDC (typical) 2.5mm Barrel Connector			
	DC Input: (PoE)	44 - 57VDC, 0.27A @ 48VDC (typical) RJ-45 (Alternative A & B)			
Output Power	3A @ 3.3VDC (per power input)				
Dimensions (W x L x H)	5.4" x 6.8" x 1.0" (137.16 mm x 172.72 mm x 25.4 mm)				
Weight	Chassis: 1.5 lbs. (0.68 kg) w/ AC Adapter: 2.0 lbs. (0.91 kg)				
Temperature	Commercial: 0 to 50°C Wide: -40 to 60°C Storage: -40 to 80°C				
Humidity	5% to 95% (non-condensing)				
Altitude	-100m to 4,000m (operational)				

 * Management is available when an iConverter module with integrated management (such as the 10/100M2) is installed in the chassis.

Rear Views





ORDERING INFORMATION

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ACCESSORIES

Model Number	Description
8249-0	Wall-Mount Hardware Kit
9130-0	NEBS Grounding Kit

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iConverter 1-Module PoE Chassis