iConverter® 19-Module Chassis

Managed Redundant-Power Chassis

The iConverter 19-Module Chassis is designed for Enterprise Local Area Network (LAN) and Metropolitan Area Network (MAN) applications where fault tolerance and a high-density rack footprint are essential. The 2U (3.5 inch) high iConverter 19-Module Chassis supports up to three power supplies for redundancy, and can be mounted in a 19-inch or 23-inch rack.

The 19-Module Chassis features up to three hot-swappable, redundant power supplies. Universal AC, 24VDC and 48VDC powering options are available. The power supplies operate in load-sharing mode to reduce the burden on each power supply to extend the lifetime and fault tolerance. Power supplies are available to support different chassis capacities and cooling requirements.

Power is provided to the nineteen iConverter modules installed in the chassis via the chassis backplane. When used with an iConverter management module, the management capabilities include the ability to monitor the voltage, current and temperature of each power supply. Any out-of-range violation can trigger an SNMP trap to allow quick corrective maintenance.

In addition to handling the power and management data for each iConverter module, the 19-Module Chassis backplane allows sharing of Ethernet data between the individual modules. iConverter modules that are installed in adjacent slots and equipped with Ethernet backplane ports have the ability to connect to each other via the chassis' Ethernet backplane and facilitate a variety of flexible management options including unmanaged, out-of-band managed, in-band managed and multi-port configurations.

The high reliability of the redundant power system combined with its AC and DC power options and its ability to hold nineteen modules in a 2U height make the iConverter 19-Module Chassis the ideal choice in the core of an enterprise, in a Central Office (CO) or for Point of Presence (POP) applications where reliability and space are critical.

The iConverter 19-Module Chassis supports the entire family of iConverter fiber media converters. All iConverter modules are hot swappable and support multiple mounting options.

Modules not included

KEY FEATURES

- The high-density iConverter 19-Module Chassis is 2U high and supports 19-inch or 23-inch rack mounts
- Up to three hot-swappable AC, 24VDC and 48VDC power supplies for mission-critical networks
- NEBS Level 3 Certification
- Ethernet Backplane allows modules to share data to support a wide variety of network applications
- Fiber Cable Management Tray available for high-density CWDM deployments
- All iConverter modules are hot-swappable when used with the 19-Module Chassis
- Management is available with the addition of a management module to the chassis
- SNMP management via NetOutlook® provides real-time port and module status information, remote parameter configuration and trap notification
- Commercial (0 to +50° C), wide (-40 to +60° C) and extended (-40 to +75° 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 modules is accomplished by installing an iConverter Management Module (NMM2) or Network Interface Device (NID) in the same chassis.

The Management Module can be accessed via SNMP, Telnet and serial port. The chassis and modules 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 19-Module Chassis include the chassis type and model, manufacturing information, along with hardware and software revisions and serial numbers of the power supplies.

In addition, the power supply modules can generate SNMP traps for out of voltage or chassis temperature range violations. All of these events can selectively enabled or disabled to generate SNMP traps.

SPECIFICATIONS

Description	19-Module AC	19-Module AC High Airflow	19-Module AC Ultra High Airflow	19-Module 24VDC	19-Module 48VDC	19-Module 48VDC High Airflow	19-Module 48VDC Ultra High Airflow
Model Number	8200-x	8201-x	8202-x	8206-x	8205-x	8207-x	8209-x
Module Capacity	19						
Power Supply Capacity	1, 2 or 3 Hot-Swappable Power Supplies						
Regulatory Compliances	UL, CE, FCC Class A, NEBS Level 3, RoHS, WEEE, REACH						
Input Power Requirements (typical)	100 to 240VAC 50/60Hz 2.0A @ 120VAC	100 to 240VAC 50/60Hz 2.5A @ 120VAC	100 to 240VAC 50/60Hz 2.5A @ 120VAC	+/- 18 to 36VDC 6.0A @ 24VDC	+/- 36 to 60VDC 3.0A @ 48VDC	+/- 36 to 60VDC 5.0A @ 48VDC	+/- 36 to 60VDC 5.0A @ 48VDC
Output Power	60 watts 18A @ 3.3VDC	120 watts 36A @ 3.3VDC	120 watts 36A @ 3.3VDC	66 watts 20A @ 3.3VDC	66 watts 20A @ 3.3VDC	120 watts 36A @ 3.3VDC	120 watts 36A @ 3.3VDC
Power Connector	IEC 320 Socket	IEC 320 Socket	IEC 320 Socket	3-Pin Terminal (Isolated)	3-Pin Terminal (Isolated)	3-Pin Terminal (Isolated)	3-Pin Terminal (Isolated)
Dimensions W x D x H	17.15" x 14.0" x 3.5" (435.61 mm x 355.6 mm x 88.9 mm)						
Weight With 1 Power Supply: With 2 Power Supplies: With 3 Power Supplies:	 16.0 lbs (7.26 kg) 18.5 lbs (8.39 kg) 21.0 lbs (9.53 kg)						
Temperature Commercial: Wide: Storage:	 0 to 50°C -40 to 60°C -40 to 80°C						
Humidity	5 to 95% (non-condensing)						
Altitude	-100m to 4,000m						
MTBF (hrs) With 1 Power Supply: With 2 Power Supplies: With 3 Power Supplies:	 45,700 182,000 731,000						
Warranty	Lifetime warranty with 24/7/365 free Technical Support						

Depending on the installed model type and the number of modules installed, the High Airflow or Ultra High Airflow power supply may be required. See Application Notes for XG+ / XGT+ and GM4.

Ultra High Airflow powers supplies can not be installed in the same chassis with other types of power supplies.

ORDERING INFORMATION

Model Number	Model Type	Power Description
8200-pt	19-Module Chassis with 60 watt AC Power Supply	IEC 320 Socket, 100 to 240VAC, 50/60Hz, 2A @ 120VAC
8201-pt	19-Module Chassis with 120 watt AC High Airflow Power Supply	IEC 320 Socket, 100 to 240VAC, 50/60Hz, 2.5A @ 120VAC
8202-pt	19-Module Chassis with 120 watt AC Ultra High Airflow Power Supply	IEC 320 Socket, 100 to 240VAC, 50/60Hz, 2.5A @ 120VAC
8205-pt	19-Module Chassis with 66 watt 48 VDC Power Supply	Direct DC 3-Pin Terminal, +/- 36 to 60VDC, 3.0A @ 48VDC
8206-pt	19-Module Chassis with 66 watt 24 VDC Power Supply	Direct DC 3-Pin Terminal, +/- 18 to 36VDC, 6.0A @ 24VDC
8207-pt	19-Module Chassis with 120 watt 48 VDC High Airflow Power Supply	Direct DC 3-Pin Terminal, +/- 36 to 60VDC 5.0A @ 48VDC
8209-pt	19-Module Chassis with 120 watt 48 VDC Ultra High Airflow Power Supply	Direct DC 3-Pin Terminal, +/- 36 to 60VDC 5.0A @ 48VDC
High Airflow and Ultra High Airflow power supplies (120W) cannot be installed in the same chassis with other types of power supplies. Use the Power Calculator to determine the iConverter chassis power supplies required for your module configuration. The 19-Module chassis does not support dying gasp.		
Base Model Number: 820x-pt		
Select the model from ordering table above.		
Add the number of power supplies (p) and operating temperature range (**t**) to the model type selected.		
Number of Power Supplies (p):		
1 = One power supply installed in the chassis		**3** = Three power supplies installed in the chassis
2 = Two power supplies installed in the chassis		**9** = Spare power supply, chassis not included
Operating Temperature Options (t):		
<leave blank> = Commercial temperature (0 to 50°C)		**W** = Wide temperature (-40 to 60°C)
Z = Wide temperature (-40 to 75°C) - DC models only		
Contact Omnitron for other operating temperatures and RoHS (5/6) compliant models.		

ACCESSORIES

Model Number	Description
8091-2	23” Rack Mount Kit
8095-1	19” Cable Management Tray
8095-2	23” Cable Management Tray
8090-0	Blank Module Panel