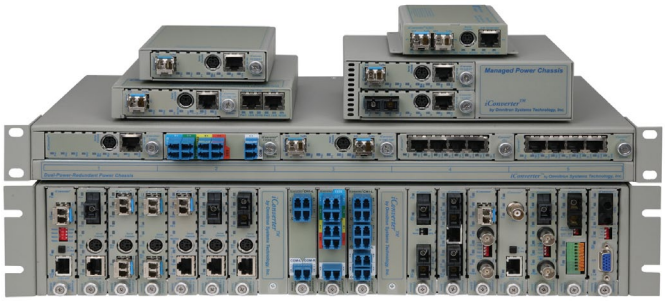
iConverter® Chassis Overview

MADE IN USA
TAA / BAA / NDAA COMPLIANT

All iConverter modules are hot-swappable and can be installed in a 19-Module (2U) or 5-Module (1U) rack-mountable chassis with any combination of redundant AC, 24VDC or 48VDC power supplies, providing a scalable solution that is space-efficient and cost-effective. They can also be mounted in a 2-Module AC or 18-60VDC powered chassis, or in a 1-Module AC/DC powered chassis.



Adding an iConverter NMM2 Network Management module or Network Interface Device (such as a 10/100M2, GM3, or GM4) to the 19, 5 or a 2-Module chassis simplifies chassis local and remote configuration and status retrieval saving time and OPEX to the service providers. Management facilitates service providers to offer SLAs to their end customers with detailed performance monitoring and fault reporting.

KEY FEATURES

- High-density and small form factors provide cost-effective Central Office or Customer Premise deployments
- Redundant, hot-swappable power supplies provide load balancing for cooler operating temperature and extended lifetimes
- NEBS Level 3, UL and CE Compliant
- Ethernet backplanes provide connectivity to adjacent modules for network expansion
- Scalable design provides a cost-effective upgrade path as network configurations change and grow
- Management is available with the addition of a management module to the chassis
- Commercial (0 to +50° C), wide (-40 to +60° C) and extended (-40 to +75° C) temperature ranges
- TAA, BAA and NDAA compliant, and Made in the USA
- Lifetime Warranty and free 24/7 Technical Support

19-Module Chassis

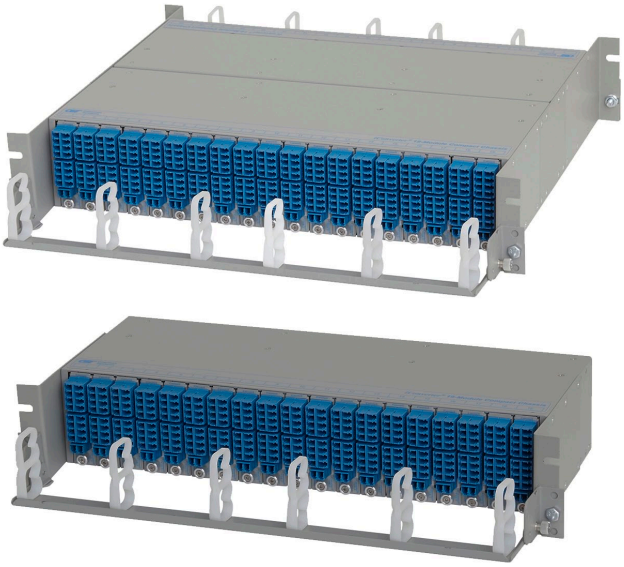
The 2U high, iConverter 19-Module managed chassis can be mounted in a 19 or 23-inch rack and features three hot-swappable redundant power supplies. Universal AC, 24VDC or 48VDC power supplies can be used in any combination (High Airflow and Ultra High Airflow power supplies (120W) cannot be installed in the same chassis with other types of power supplies). The power supplies operate in load-sharing mode for fault tolerance.

The high density 19-Module chassis features an Ethernet backplane for connectivity between each two adjacent module slots, and is ideal in the core of the enterprise, in a Central Office (CO), or in Point of Presence (POP) applications where reliability and space are critical.

19-Module Compact Chassis

The iConverter 19-Module Compact Chassis provides an innovative approach to increase the number of CWDM or DWDM connections in a 2U (3.5 inch) high rack space. The short chassis design allows two chassis to be connected back-to-back supporting up to 38 CWDM or DWDM modules. This configuration provides up to 684 connectors or up to 608 simplex channels or 304 duplex channels.

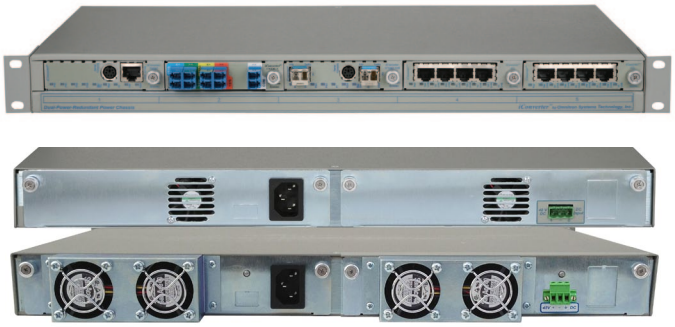
The 19-Module Compact Chassis is designed for passive iConverter CWDM/DWDM modules that do not require power. The Chassis can be ordered as a single, front-loading chassis or as a dual front and rear loading chassis kit. The single chassis supports up to 19 modules and the dual chassis kit supports up to 38 modules. The single chassis can be upgraded to support rear loading by ordering another single chassis and optional coupling brackets.



5-Module Chassis

The 1U high, iConverter 5-Module managed chassis can be mounted in a 19 or 23-inch rack and features redundant power supplies. Universal AC, 24VDC or 48VDC power supplies are hot-swappable and can be used in any combination (High Airflow and Ultra High Airflow power supplies (66W) cannot be installed in the same chassis with other types of power supplies).. The power supplies operate in load-sharing mode for fault tolerance.

The 5-Module chassis features an Ethernet backplane for connectivity between adjacent module slots, and is ideal for distributing fiber and copper from Point of Presence (POP), Customer Premise Equipment (CPE) and Multi-Tenant Unit (MTU) locations.



2-Module Chassis

The 2-Module Managed Power Chassis features a single internal universal AC or 18-60VDC power supply and can be remotely managed In-Band or Out-of-Band. When managed In-Band, it requires no connections to another switch or customer equipment, which provides a clear demarcation point between the service provider's equipment and the customer's equipment.

The 2-Module chassis features an Ethernet backplane for connectivity between its two module slots. The 2-Module chassis is available with a Dying Gasp trap feature (which requires a management module) and is ideal for edge and Customer Premises applications.

1-Module Redundant Power Chassis

The iConverter 1-Module Redundant Power Chassis is designed for mission-critical Enterprise applications and demarcation of Ethernet services at the Customer Premises. The chassis supports multiple power sources, configurable 10/100 Ethernet ports and a wide variety of alarm options making it ideal for locations where power is unavailable or costly to install, or where the monitoring of external events is required.

Power source options include load-sharing combinations of Power over Ethernet (PoE), 9-24VDC and 24-60VDC. When used as a PoE device, the chassis is powered through one of the 10/100 network ports from a Power Source Equipment (PSE) such as a switch or a Mid-Span power injecting device.

The two, fully-configurable 10/100 UTP ports connect to the installed iConverter module via the Ethernet backplane, and support auto-negotiation, half/full-duplex and auto-crossover. The four optional contact-closure alarm sensors can be used to monitor and generate traps for UPS battery status or other external devices that monitor moisture, temperature, or opening and closing of enclosure doors.

1-Module Industrial Chassis

The iConverter 1-Module Industrial Power Chassis is a compact, versatile chassis featuring a single or dual DC terminal power connection supporting 12 to 36VDC or 20 to 60VDC providing flexible installation options.

The chassis can be DIN-rail mounted using the included DIN-rail mounting clip or wall mounted using the optional wall mounting plate. The chassis operates over a temperature range of -40 to +75°C.

1-Module Power Chassis

The 1 inch high, iConverter 1-Module chassis uses an external AC/DC power adapter, is tabletop or wall-mountable and supports a single iConverter module. It is ideal for managed or unmanaged Fiber-to-the-Premises or Fiber-to-the-Desktop applications where flexibility and modularity are important.

1-Module Passive Chassis

The iConverter 1-Module Passive Chassis is a one-slot, unpowered standalone chassis that can house all single-slot iConverter CWDM Multiplexer modules.

ORDERING INFORMATION

See individual data sheets for model number details

Model Number	Model Type
19-Module Chassis	
8200	19-Module Chassis with 60 watt AC Power Supply
8201	19-Module Chassis with 120 watt AC High Airflow Power Supply
8202	19-Module Chassis with 120 watt AC Ultra High Airflow Power Supply
8205	19-Module Chassis with 66 watt 48 VDC Power Supply
8206	19-Module Chassis with 66 watt 24 VDC Power Supply
8207	19-Module Chassis with 120 watt 48 VDC High Airflow Power Supply
8209	19-Module Chassis with 120 watt 48 VDC Ultra High Airflow Power Supply
19-Module Compact Chassis	
8210-1	Single Front-Loading 19-Module Compact Chassis with two 19” Rack Mount Brackets
8210-2	Dual Front and Rear Loading 19-Module Compact Chassis Kit with four 19” Rack Mount Brackets and two Coupling Brackets
5-Module Chassis	
8220	5-Module Chassis with 33 watt AC Power Supply
8221	5-Module Chassis with 66 watt High Airflow AC Power Supply
8225	5-Module Chassis with 33 watt 48 VDC Power Supply
8226	5-Module Chassis with 33 watt 24 VDC Power Supply
8227	5-Module Chassis with 66 watt High Airflow 48 VDC Power Supply
2-Module Chassis	
8230-0	2-Module Chassis with 8.5 watt AC Power Supply, No fan
8230-1	2-Module Chassis with 8.5 watt AC Power Supply, No fan, with dying gasp
8231-0	2-Module Chassis with 16.5 watt AC Power Supply, with temperature controlled fan
8231-1	2-Module Chassis with 16.5 watt AC Power Supply, with temperature controlled fan, with dying gasp
8232-1	2-Module Chassis with 16.5 watt High Airflow AC Power Supply, with fan, with dying gasp
8235-0	2-Module Chassis with 6.6 watt 48 VDC Power Supply, No fan
8235-1	2-Module Chassis with 6.6 watt 48 VDC Power Supply, No fan, with dying gasp
8236-0	2-Module Chassis with 16.5 watt 48 VDC Power Supply, with temperature controlled fan
8236-1	2-Module Chassis with 16.5 watt 48 VDC Power Supply, with temperature controlled fan, with dying gasp
8238-1	2-Module Chassis with 16.5 watt High Airflow 48 VDC Power Supply,with fan, with dying gasp
1-Module Redundant Power Chassis	
See data sheet for available options.	
1-Module Industrial Chassis	
8270-1	1-Module Chassis +/-12 to +/-36 VDC
8270-2	1-Module Chassis +/-20 to +/-60 VDC
1-Module Chassis	
8240-1	1-Module Chassis with 3.3 watt AC Power Supply
8240-2	1-Module Chassis with 3.3 watt AC Power Supply
8241-1	1-Module Chassis with 5.0 watt AC Power Supply with dying gasp
8241-2	1-Module Chassis with 5.0 watt AC Power Supply with dying gasp
8242-1	1-Module Chassis with 8.3 watt AC Power Supply
8242-2	1-Module Chassis with 8.3 watt AC Power Supply
8242-9	1-Module Chassis with 8.3 watt 48 VDC Power Supply
8243-9	1-Module Chassis with 8.3 watt 48 VDC Power Supply with dying gasp
8243-1	1-Module Chassis with 8.3 watt AC Power Supply with dying gasp
8243-2	1-Module Chassis with 8.3 watt AC Power Supply with dying gasp
1-Module Passive Chassis	
8244-0	1-Module Passive Chassis