

Prisma IP™ Intelligent Wavelength Transport Micro-Node Chassis



Overview

The Prisma IP™ Micro-Node is a compact chassis that accepts up to two of the Prisma IP family of Intelligent Wavelength Transport cards. The two-slot chassis is ideal to create tributary nodes in a larger network or to create smaller dedicated-purpose networks that only require a minimum number of cards or bandwidth.

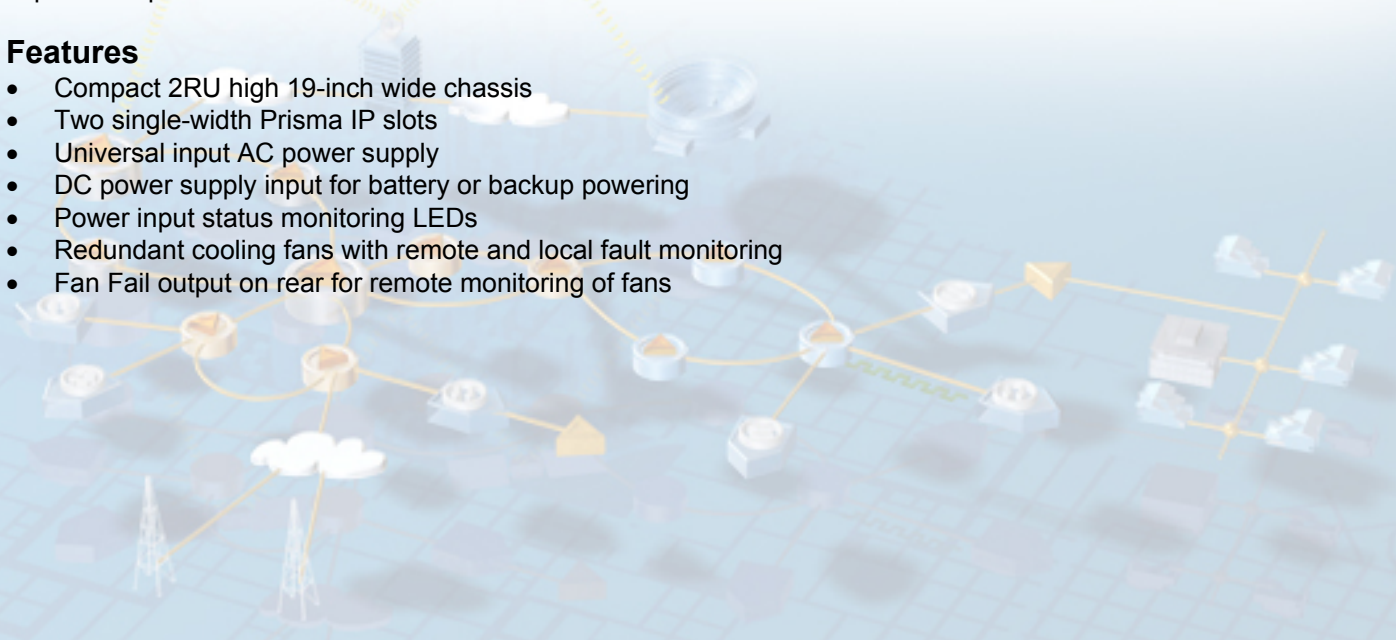
Description

The Micro-Node chassis is a compact (2RU high) chassis designed to complement the Prisma IP family of products. The chassis can accept up to two of the Intelligent Wavelength Transport front and associated rear cards, such as the Gigabit Ethernet, DVB-ASI, SMPTE-259M SDI, Optical Switch and EDFA cards. These wavelength transport cards can be used independent of the Resilient Packet Ring (RPR) switch fabric and system controllers, and they contain their own optical interfaces on their rear card. The Micro-Node chassis supplies power, cooling and data-plane interconnection of these cards and allows them to be used in stand-alone applications. The Micro-Node chassis can be powered by AC or DC or both, and is cooled by redundant monitored fans.

The wavelength transport cards can be used in the Prisma IP M-Series and C-Series chassis as well as the Micro-Node chassis. Star architectures can be implemented that use the M-Series or C-Series chassis at the center of the network and multiple Micro-Node chassis at the remote node locations. Alternate architectures can employ wavelength transport cards in both ends of dedicated link networks that do not require the line card expansion space of the M-Series or C-Series chassis.

Features

- Compact 2RU high 19-inch wide chassis
- Two single-width Prisma IP slots
- Universal input AC power supply
- DC power supply input for battery or backup powering
- Power input status monitoring LEDs
- Redundant cooling fans with remote and local fault monitoring
- Fan Fail output on rear for remote monitoring of fans



Prisma IP Intelligent Wavelength Transport - Micro-Node



Specifications

Line Card Interfaces	
Line card configuration	Two single-width card slots, to accept one or two Prisma IP point-to-point cardsets (front and rear)
Accepted card types	Prisma IP Intelligent Wavelength Transport cards: Gigabit Ethernet Video Packet Processor Front Card DVB-ASI Video Packet Processor Front Card Gigabit Ethernet Rear Card (OTX, ORX, OTR) DVB-ASI Rear Input Card (OTX) DVB-ASI Rear Output Card (ORX, OTR) SMPTE-259M SDI Packet Processor Front Card SMPTE-259M SDI Rear Input Card (OTX) SMPTE-259M SDI Rear Output Card (ORX, OTR) 10 GbE Packet Processor Front Card 10x GbE Packet Processor Rear Card 2:1 Automatic Optical Switch Card Digital EDFA Card
Card and Shelf Cooling	Redundant cooling fans, with local and remote alarm monitoring
Electrical Specifications	
AC power input	90 - 264 V AC, 50/60 Hz, 200 W maximum
DC power input	- 48 V DC nominal powering, 4 amperes max. - 40 to -60 V DC, negative polarity wrt ground/return
Front Panel Diagnostic LEDs	AC Power Present Green DC Power Present Green Fan Fail Red
Fan Failure Output	Rear Panel Terminal Strip Connector Fans Good +10.5 V DC, $\pm 10\%$ Fan(s) Fail <+2 V DC, capable of sinking up to 200 mA
Physical Specifications	
Physical dimensions	Height: 3.50 in. (8.9 cm) 2RU Width: 19.00 in. (48.3 cm) EIA standard rack mounting Depth: 21.25 in. (54.0 cm) Weight: 6 lbs (2.7 kg) maximum
Operating temperature	0° to 50°C / 32° to 122° F <i>(extended operation above 40°C / 104°F not recommended)</i>
Storage temperature	-40°C to 70°C / -40°F to 158°F
Relative humidity	5% to 85% (non condensing)
Emissions	FCC Part 15B EN55022 EN55024
Safety	UL, CUL

Ordering Information

Description	Part Number
Micro-Node Two-Slot Chassis, AC and/or DC power	4007989

Note: This unit replaces the original Micro-Node P/N 754476. Enhancements in this updated version include higher power specifications and compatibility with newer line cards, such as the 10GbE wavelength transport cards.



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