Cisco Prisma II™ XD Platform

Description

In optical transmission systems, the network platform forms the foundation of the product family. The Prisma II XD platform provides network operators with a full-featured space saving design. The chassis can be AC or DC powered - the AC chassis uses 2 redundant and load sharing, rear mount power supply modules. DC power can be wired directly to the chassis without the need of a power supply module, and redundant power connections provide power sharing from chassis-to-chassis. Features such as high module density, broad operating temperature range, and a design optimized for easy module insertion, setup, and administration make the Prisma II XD platform a key component in increased network reliability, scalability, and more cost-effective deployments.

Figure 1. Prisma II XD Platform

Features

- 1 GHz capable

- Very high usable module density (up to 16 modules per 3 RU chassis)

- DC power can be connected directly to the chassis without the need of a power supply module

- Optional AC Power Supply Module

- Compatible with all Prisma II high density (HD) modules

- Broad operating temperature range

- Solid metal construction

- Front access angled optical connectors

- Rear access RF connectors

- Integrated front side fiber trough and rear-to-front access conduit for easy fiber management

- Advanced SNMP-oriented network monitoring (using optional rear access ICIM card)

- Front access local craft port for convenient setup

- Rear access contact closure block

Prisma II XD Chassis

- Very high usable module density (up to 16 modules per 3 RU chassis)
- Compatible with all Prisma II high density (HD) modules
- DC power can be connected directly to the chassis without the need of a power supply module
- Low power consumption
- Broad operating temperature range
- Integrated front side fiber trough and rear-to-front access conduit for easy fiber management
- Front access local craft port for convenient setup
- Rear access contact closure block

Figure 2.   XD Chassis

Specifications

Electrical	Units		Notes
Connections: • SNMP compatible ICIM • Local Alarm • Auxiliary Power Input (-48 V DC) • Ground Stud (Rear)		RJ45 Terminal Block Molex 03-12-1036 #10-32 thread	
DC Input Voltage Range	V DC	-40 to -60	
DC Power Consumption (max)	W DC	185	5
AC Power Consumption (max)	W AC	220	4,5
Bandwidth	MHz	5 - 1002	
Environmental	**Units**		**Notes**
Operating Temperature Range	°C °F	0 to +50 +32 to +122	1, 2
Storage Temperature Range	°C °F	-40 to +70 -40 to +158	
Humidity Range	%	0 to 95	3
Altitude Range	ft.	-200 to +6561 (above sea level)	
Physical Dimensions	**Units**		**Notes**
D x W x H	in. cm	22 x 17.5 x 5.25 55.9 x 44.5 x 13.3	
Weight	lb kg	25 11.3	
Rack Units	RU	3	

Notes:
1. Air temperature measured at the air inlet of the Prisma II XD chassis.
2. All unused slots in the Prisma II XD chassis need to be filled with a Module Blank for proper system cooling.
3. Recommended for use only in non-condensing environments.
4. With optional AC power supply.
5. For fully-loaded chassis.

Ordering Information

Description	Part Number
Prisma II XD Chassis, F connector	4022058
Prisma II XD Chassis, F connector, with ICIM	4023768
Prisma II XD Chassis, Blank Module	4023066
Prisma II XD Chassis, DC Interconnect Cable	4023718
Prisma II XD Chassis, DC Power Extension Cable	4011730
Prisma II XD Chassis, Fan Tray Assembly	4031617

Prisma II XD Chassis Power Supply Module

- Universal AC (90-264 V AC)
- One power supply module can support 2 fully-loaded chassis
- Designed to be used in fully-redundant configuration
- Uninterruptible transfer to single supply in the event that one power supply module fails
- Modular, rear access design and hot-swap capability allow for quick and easy replacement in the event of failure
- Redundant connection provides power sharing from chassis-to-chassis
- Power factor correction
- DC power can be connected directly to the chassis without the need of a power supply module

Figure 3.   Power Supply

Specifications

AC Power Supply	Units		Notes
Input Voltage Range	V AC	100 - 240 (+/- 10%)	1
AC Frequency Range	Hz	47 - 63	
Power Consumption (maximum)	W	570 W (max)	4
Output Voltage/Current	V DC/A	-48 V/9.3 A	
Line Regulation	%	±1	
Load Regulation	%	±1	
Environmental	**Units**		**Notes**
Temperature Range	°C °F	0 to +50 32 to +122	2
Storage Temperature Range	°C °F	-40 to +70 -40 to +158	
Humidity Range	%	0 to 95	3
Altitude Range	ft.	-200 to +6561 (above sea level)	
Physical Dimensions	**Units**		**Notes**
D x W x H	in. cm	10.6 x 1.6 x 3.3 26.9 x 4.1 x 8.4	
Weight	lb kg	2.5 1.1	

Notes:
1. AC power cords must be ordered with chassis - see ordering information below to select the proper power cord.
2. Air temperature measured at the air inlet of the Prisma II XD chassis.
3. Recommended for use only in non-condensing environments.
4. One power supply module can support 2 fully-loaded chassis.

Ordering Information

Description	Part Number
Power Supply Module, Prisma II XD, 90-264 V AC	1005444
Prisma II XD Chassis, DC Interconnect Cable	4023718
AC Power Cords	
US	3989838
UK	3989836
Japan	3993133
Italy	3993130
Europe	3989835
China	735415
Australia	1000897

Argentina	207340

Intelligent Communications Interface Module (ICIM)

- Supports web-browser and Command Line Interface (CLI) for local management
- Provides early warning of system faults
- Blind-mate (push-on) connectors for power and data provide complete front access for simplified installation and maintenance
- Allows local module configuration and status monitoring for up to 64 modules located in multiple Prisma chassis including: Prisma II Chassis, Prisma II High-Density Chassis, Prisma II XD Chassis, and Prisma HDRx Chassis
- SNMP Ethernet interface
- SNMP compatible
- Firmware can be upgraded by remote download

Specifications

Electrical	Units		Notes
Connections		RJ-45 (Ethernet)	
Power Consumption	W DC	0.3	
Polling Speed	Kb	38.4	

Environmental	Units		Notes
Temperature Range			
Full Specs and Operational	°C °F	0 to +50 +32 to +122	1
Storage Temperature Range	°C °F	-40 to +70 -40 to +158	
Humidity Range	%	0 to 95	2
Altitude Range	ft.	-200 to +6561 (above sea level)	

Physical Dimensions	Units		Notes
D x W x H	in. cm	10 x 6 x 1.5 25.4 x 15.2 x 3.8	
Weight	lb kg	0.25 0.11	
Module Width	slot	2	

Notes:
1. Air temperature measured at the air inlet of the Prisma II XD chassis.
2. Recommended for use only in non-condensing environments.

Ordering Information

Description	Part Number
Cisco Prisma XD ICIM	4022060