

## Versatile 10-Slot Chassis System for MultiService Applications



Figure 1: Xedge 6280 Chassis System

### Xedge 6280 Chassis

The Xedge 6280 is modular 10-slot chassis that allows full redundancy by employing main and standby slot-0 controllers, main and standby switch fabric, and backup power supplies. It also accommodates one Network Timing Module (NTM) for advanced system timing configurations. The Xedge 6280 is available in AC and DC power source versions. The chassis may be deployed as a standalone desktop unit, front-mounted in 19-inch rack/cabinet, or mid-mounted in 23-inch rack/cabinet.

The front panel provides easy installation for one Xedge switch fabric module and up to four Xedge slot controllers of any type:

- Xedge XS or XH Switch Fabric Module
- Xedge cell controllers (ACP, ACS or ECC)
- Xedge adaptation controllers (CE, FRC, CHFRC, ETH, VSM)
- Xedge packet controllers (PCX, PCE, ISG2, PCL, etc.)

The Xedge 6280 rear panel provides connectors for power sources, management, grounding and alarm connections. One DB-25F connector is used for contact alarms. A shorting bar located on the rear of the chassis provide for the connection, separation, or isolation of frame and signal grounds as required.

### Supported LIMs, SMMs

Rear panel slots accommodate one or two Xedge line interface modules (LIMs) for each installed slot controller. A dedicated rear panel slot is also provided for one System Management Module (SMM) which has two DB-9 management ports (Manager and Auxiliary) that provide local access via an asynchronous terminal.

### Features & Benefits

- Modular chassis installs in an open or standard 19-inch rack or cabinet, flush-mount or midmount, or as a standalone desktop unit.
- Accepts one or two (redundant) switch fabric modules
- Accepts one or two (redundant) slot-0 slot controllers, and accepts up to six additional slot controllers
- Supports input and power supply redundancy
- Rear panel slots accommodate one or two Xedge line interface modules for each installed slot controller.
- Modules can be installed or extracted without powering down the shelf (hot-swappable).
- Air flow is provided by six fans, each delivering 55 cubic feet per minute (cfm).
- Supports environmental status and alarms control.
- Provide a signal and chassis ground connection point.

### Chassis Power

The rear of the chassis provides two slots for Power Input Modules (PIMs) and four slots for Power Supply Units (Main A/B and Standby A/B). This power arrangement allows for power input redundancy and power supply redundancy.

The Xedge 6280 chassis is available in an AC or DC model. The AC-version uses one or two GPS-16A autoranging power supplies that automatically adapt to AC power inputs ranging from 90 to 264VAC.

The DC version uses one or two DPS-16A autoranging power supplies that automatically adapt to DC power inputs ranging from -42 to -70 VDC.

## Xedge 6280 Physical Specifications

### Dimensions

Height: 8.75 in. (22.2 cm)  
 Width: 17.7 in. (45 cm)  
 Depth: 19.25 in. (48.9 cm)

### Module Capacity

Two dedicated front slots accept switch fabric modules (XS or XH).  
 Two dedicated front slots accept slot-0 controllers (Main and Standby)  
 Factory-installed Link Personality Modules (LPMs):  
 LPM-1, LPM-2, LPM-4, LPM-CE  
 Six front slots accept single-width or double width Xedge slot controllers with 1 or two compatible LIMs per controller.

Single-width slot controller modules:  
 CE, FRC, CHFRC, ETH, ECC, ACP, ACS, VSM, ISG2

Dual-width slot controller modules:  
 PCX, PCE, PCL

### Module/LIM Applications

The Slot Controller/LPM/LIM Bundle installed at the factory supports a variety of LIM applications:

LPM-1: Uses Utopia-type LIMs only  
 LPM-2: Uses one Utopia, one SERDES-type LIMs  
 LPM-4: Uses SERDES-type LIMs only  
 LPM-CE: uses Utopia-type LIMs only (for use with PCE)

### LIM Types

Supported LIMs	LIM Type	Used with
STM-N/OC-N 8-Port OC-N	SERDES	PCX
155-Series LIMs	Utopia	PCX, ECC
155E-2 Electrical LIM	Utopia	ECC
DS3 LIM	Utopia	CE, PCX, PCL, PCE, ACP, CE
DS1 LIMs	Utopia	PCX, ACP, VSM, CE, CHFRC
E1	Utopia	PCX, PCE, ACP, VSM, FRC, CHFRC, CE
E3	Utopia	PCX, PCL, PCE, ACP, CE
HSSI	Utopia	PCX, ACP, FRC
Serial I/O	Utopia	PCX, PCE, ACP, FRC, CE
ASIO	Utopia	PCX, PCE, ACP, CE
LCE-16	Utopia	PCX, ACP
DSX1/E1-16 IMA	Utopia	PCX, ECC
DSX1/E1-16 IMA+	Utopia	PCX, PCL
DSX1/E1-8 IMA +	Utopia	PCX, PCL
A-Series LIMs	Utopia	ACS
QTLIM	Utopia	ETH

## Environmental Specifications

### Non-Operating

Temperature -40 deg. to 158 deg. F (-40 deg. to 70 deg. C)  
 Altitude: 0 ft. to +40,000 ft. (0 m to +12191 m)

### Operating

32 deg. to 122 deg. F (0 deg. to 50 deg. C)  
 Relative Humidity: 5% - 95% non-condensing  
 Altitude: 0 ft. to +10,000 ft. (0 m to +3048 m)

## Power Specifications

### Xedge 6280 AC Version (P/N 010B209-001)

Power Supply P/N: 035B011-002  
 Capacity: Two or four power supplies  
 Input Voltage Range: 90 to 264 VAC  
 Input Frequency: 50 to 60 Hz  
 Maximum Power Consumption: 350 W  
 Service Current Requirement: 15A  
 Fuse Rating: 6.3A, 250 VAC, each power supply  
 Heat Dissipation: 1,195 BTU/hr, maximum

### Xedge 6280 DC Version (P/N 010B210-001)

Power Supply P/N: 041B011-001  
 Capacity: Two or four power supplies  
 Input Voltage Range: - 42 to - 70 VDC  
 Maximum Power Consumption: 350 W  
 Fuse Rating: 10A, 250 VDC, each power supply  
 Heat Dissipation: 1,195 BTU/hr, maximum

## Compliance & Compatibility

CISPR 22 Class A, FCC 15 Class A, EN55022, EN55024  
 UL Listed (60950)  
 c-UL Listed (CSA C22.2 #950)  
 TUV licensed (EN60950)  
 CE Mark  
 Quality Assurance: ISO 9001: 2000 Certified

