

Xedge 6002 Chassis

Compact and Versatile Xedge Chassis for Packet-Based Applications



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The Xedge 6002 is a modular, compact 1RU (1.75" high) chassis ideal for central offices, remote offices, and cell sites. Chassis midplane provides two slots for one or two packet-based Xedge slot controllers that install easily via the front panel:

- Xedge PCX/PCX2 (Xedge Packet Cell Switch) module
- Xedge PCE (Packet Circuit Emulation) module
- Xedge PCL (Packet Cell Link) module
- Xedge ISG2 (IP Services Gateway) module

The ISG2 can also be deployed with one other compatible Xedge controller to support voice functionality, LCE-16 LIMs, or ATM transport.

Reliable and Versatile

The Xedge 6002 is a low density, rack-mountable chassis designed for the space limitations of remote cabinets or Central Offices. The shelf is equipped with an integrated 100 to 240 VAC power supply which employs universal AC input. The midplane connector supports several types of LIM Personality modules (LPMs) that allow capable slot controllers to support various LIM-type combinations.

Features & Benefits

- Compact, modular 1RU chassis installs in an open or standard 19-inch rack or cabinet, either flush-mount or midmount.
- Accommodates one double-width or two single-width slot controllers for multiservice packet applications.
- When deployed with ISG2, supports one Xedge CE (Circuit Emulation) module, Xedge Voice Service (VSM) module or Xedge ATM controller modules (ACP) and associated LIMs.
- Modules can be installed or extracted without powering down the shelf (hot-swappable).
- Uses one auto-ranging power supply that adapts to AC power inputs ranging from 90 to 264 VAC.
- Rear panel slots accommodate one or two Xedge LIMs associated with the installed slot controller (PCE, PCL, PCX/PCX2, VSM, ACP, CE, etc).
- Supports environmental status and alarms control.
- Provide a signal and chassis ground connection point.
- Front panel modular craft port support capable devices.

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Xedge 6002 Physical Specifications

Dimensions

Height: 1.74 in. (44.09 mm)
Width: 19 in. (482.60 mm)
Depth: 19 in. (482.60 mm)

Module Capacity

Two front slots accept up to two single-width Xedge slot controllers, or one double-width slot controller with 1 or two compatible LIMs.

Single-width slot controller modules:
ISG2, VSM, CE, ACP

Dual-width slot controller modules:
PCX/PCX2, PCE, PCL

Factory-installed Link Personality Modules (LPMs):
LPM-1, LPM-2, LMP-3, LPM-4, LPM-5, LMP-6, LPM-CE

Module/LIM Applications

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

- LPM-1: Uses two Utopia LIMs
- LPM-2: Uses one Utopia LIM (LIM1) and one SERDES LIM (LIM2)
- LPM-3: Uses one Serial LIM (LIM1) and one SERDES LIM (LIM2)
- LPM-4: Uses two SERDES LIMs
- LPM-5: Uses two Serial LIMs
- LPM-6: Uses one Serial LIM (LIM1) and one Utopia LIM (LIM2)
- LPM-CE: Uses two selected Serial LIMs (with PCE only)

Serial LIMs	Utopia LIMs	SERDES LIMs
DS1-2CS	DSX1-IMA	OC-N/STM-N
DS1-4CS	E1-IMA	AVM (Voice)
DS3-2C	155M-2	T1/E1 MP16
E1-2CS	155I-2	T1/E1 HDCC
E1-4CS	155L-2	
E3-2C	155M-APS	
LCE-16	155I-APS	
ASIO	155L-APS	
ASIO-HSSI (DCE)	155E-2	

Port Capacity

All Xedge chassis types can support a variety of controller/LIM combinations. The following matrix provides a simplified indication of each chassis' maximum port capacity by interface type, assuming PCE/ASIO, PCE/DS3-2C, PCX-2/T1/E1 MP16, and PCX-2/LCE-16.

Chassis Type	Redundant Power	Redundant SW Fabric	Redundant Slot-0	Maximum DS1 Ports	Maximum DS3 Ports	Maximum Serial Ports	Maximum Substrate Ports
Xedge 6002	NO	N/A	N/A	32	2	8	32
Xedge 6160	2 AC or 2 DC	1	NO	64	4	16	16
Xedge 6280	4 AC or 4 DC	2	YES	96	6	24	96
Xedge 6640	4 AC	2	YES	224	14	56	224
Xedge 6645	4 DC	2	YES	224	14	56	224

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

Power Supply

Capacity: One AC Power Module

Supported slots: 2

Power Requirements:
100/120VAC, 50/60 Hz
220/240VAC, 50/60 Hz

Fusing: 1.6A Fast Blow, 250V

Maximum Power Consumption: 150

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