INTRODUCTION

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 or two Xedge switch fabric modules and up to seven 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 (0), Standby (1), Backup Main (2) and Backup Standby (3). 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 Chassis**

### 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, LMP-3, LPM-4, LMP-5, LPM-6, LPM-CE

Seven front slots accept single-width or double-width Xedge slot controllers with 1 or two compatible LIMs per controller.

- Single-width slot controller modules:
  - ISG2, VSM, CE, FRC, CHFRC, ETH, ECC, ACP, ACS
- Dual-width slot controller modules:
  - PCX/PCX2, PCE, PCL

#### 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)

### 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
- Temperature: 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 (with two power supplies)
- 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 (with two power supplies)
- 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

### Serial LIMs

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

### 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.

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

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