**Xedge 6160 Chassis**

Versatile 5-Slot Chassis System for MultiService Applications

**Xedge 6160 Chassis**

The Xedge 6160 is a compact, standalone 5-slot chassis ideal for central offices, remote offices, and cell sites. 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 XM, 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 6160 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.

**Features & Benefits**

- Compact, modular chassis installs in an open or standard 19-inch rack or cabinet, flush-mount or mid-mount, or as a standalone desktop unit.
- Accommodates one switch fabric and up to four single or double width slot controllers for multiservice applications.
- Modules can be installed or extracted without powering down the shelf (hot-swappable).
- Rear panel slots accommodate one or two Xedge line interface modules for each installed slot controller.
- 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 Xedge 6160 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.

**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.
Xedge 6160 Chassis

Physical Specifications

Dimensions

Height: 4.38 in (11.1 cm)
Width: 17.5 in (44.4 cm)
Depth: 19 in (48.3 cm)

Module Capacity

Dedicated front slot accepts one switch fabric module (XM, XS or XH)
Factory-installed Link Personality Modules (LPMs):
- LPM-1, LPM-2, LMP-3, LPM-4, LPM-5, LMP-6, LPM-CE

Four 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)

<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>
</tr>
<tr>
<td>LCE-16</td>
<td>155L-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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</tbody>
</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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</thead>
<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>
</tr>
<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>
</tr>
<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>
</tr>
<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>
</tbody>
</table>

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 6160 AC Version (P/N 010B203-001)

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

Xedge 6160 DC Version (P/N 010B204-001)

- Power Supply P/N: 041B011-001
- Capacity: One or two power supplies
- Input Voltage Range: - 42 to - 70 VDC
- Maximum Power Consumption: 350 W (with one power supply)
- 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

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