

Xedge 6000 Chassis System Power and Management



Xedge 6000 Family of Chassis Systems

Chassis Power Overview

GDC's Xedge 6000 rackmount chassis systems employ integral or modular power supply units for reliable standby and backup power availability.

- Xedge 6645 chassis is powered by up to four DPS-14A DC power modules.
- Xedge 6640 chassis is powered by up to four GPS-14A AC power modules.
- Xedge 6280 chassis is powered by up to four GPS-16A AC, or up to four DPS-16A DC power modules.
- Xedge 6160 chassis is powered by up to two GPS-16A AC, or up to two DPS-16A DC power modules.
- Xedge 6002 chassis has one integral AC power supply that automatically adapts to AC power inputs ranging from 90 to 264VAC. The power supply cannot be accessed or replaced by the user.

Local Management Access

For local configuration and management of an Xedge node, Xedge 6000 chassis systems employ integral craft port(s) or a System Management Module (SMM) to provide local access via an asynchronous terminal. These craft connections allow craft port (local) access to the management interface of the slot-0 controller.

- Both the Xedge 6640 and the Xedge 6645 chassis employ an integral System Management Panel at the chassis rear panel which provides two DB-25 craft ports.
- Both the Xedge 6160 and the Xedge 6280 chassis employ the SMM module at the chassis rear panel which provides two DB9 craft ports.
- The Xedge 6002 chassis provides an RJ45 connector at the chassis front panel.

Xedge Power/Mgmt

GPS-14A AC Power Supply



DPS-14A DC Power Supply



SPECIFICATIONS

Product Name	GPS-14A AC Power Supply Module
Part No.:	035P114-001
Chassis Compatibility:	Xedge 6640 (P/N: 010B197-001)
Power Redundancy:	Up to 4 power modules per chassis; Up to 2 power feeds.
Input Voltage (nom.)	90 - 264 VAC auto-ranging
Input Frequency:	47 - 63 Hz
Input Current:	16A
Service Current Rqmt:	20A
Fuse Rating:	12A, 250V for each supply
Max. Consumption:	1300 W
Heat Dissipation:	4,600 BTU/hr maximum
Compliance:	CISPR 22 Class A UL recognized (UL 1459) c-UL recognized (CSA C22.2 #255) TUV licensed (EN60950) CE Mark
Temp, oper:	32 to 122 deg. F (0 to 50 deg C)
Temp, non-oper:	-40 to 158 deg. F (-40 to 70 deg. C)
Humidity:	Up to 95% without condensation
Altitude, oper:	0 to 10,000 ft (0 to 3,047 m)
Altitude, non-oper:	1 to 40,000 ft (0 to 12,191 m)
Supplied Power Cords:	Two (US 120 V) supplied.
Power Cord Options:	Australia: P/N S-010-H014-008 Continental Europe:P/N S-010-H013-008 Italy: P/N S-010-H016-008 North America: P/N 830-002-108 UK: P/N S-010-H015-008

SPECIFICATIONS

Product Name:	DPS-14A DC Power Supply Module
Part No.:	041P114-001
Chassis Compatibility:	Xedge 6645 (P/N: 010B198-001)
Power Redundancy:	Up to 4 power modules per chassis; Up to 2 power feeds.
Input Voltage (nom.)	-48 VDC nominal, (-42 to -70 VDC)
Input Current:	27A at -48 VDC
Service Current Rqmt:	35A
Fuse Rating:	20A, 250V for each supply
Max. Consumption:	1300 W
Heat Dissipation:	4,600 BTU/hr maximum
Compliance:	CISPR 22 Class A UL recognized (UL 1459) c-UL recognized (CSA C22.2 #255) TUV licensed (EN60950) CE Mark
Temp, oper:	32 to 122 deg. F (0 to 50 deg C)
Temp, non-oper:	-40 to 158 deg. F (-40 to 70 deg. C)
Humidity:	Up to 95% without condensation
Altitude, oper:	0 to 10,000 ft (0 to 3,047 m)
Altitude, non-oper:	1 to 40,000 ft (0 to 12,191 m)

Xedge Power/Mgmt

GPS-16A AC Power Supply



DPS-16A DC Power Supply



SPECIFICATIONS

Product Name	GPS-16A AC Power Supply Module
Part No.:	035P011-002
Chassis Compatibility:	Xedge 6160 AC (010B203-001) Xedge 6280 AC (010B209-001)
Power Redundancy:	Xedge 6160 AC: Up to 2 power modules per chassis; one power feed. Xedge 6280 AC: Up to 4 power modules per chassis; up to 2 power feeds.
Input Voltage (nom.)	90 - 264 VAC auto-ranging
Input Frequency:	47 - 63 Hz
Input Current:	16 A
Service Current Rqmt:	15 A
Fuse Rating:	6.3A, 250 VAC for each supply
Max. Consumption:	350 W for Xedge 6160 AC chassis 750 W for Xedge 6280 AC chassis
Heat Dissipation:	4,600 BTU/hr maximum
Compliance:	CISPR 22 Class A UL recognized (UL 1459) c-UL recognized (CSA C22.2 #255) TUV licensed (EN60950) CE Mark
Temp, oper:	32 to 122 deg. F (0 to 50 deg C)
Temp, non-oper:	-40 to 158 deg. F (-40 to 70 deg. C)
Humidity:	Up to 95% without condensation
Altitude, oper:	0 to 10,000 ft (0 to 3,047 m)
Altitude, non-oper:	1 to 40,000 ft (0 to 12,191 m)
Supplied Power Cords:	Two (US 120 V) supplied.
Power Cord Options:	Australia, NZ, China: P/N 830-002-010 Europe: P/N 830-061-002 Italy: P/N 830-002-008 Japan: P/N 830-002-009 North America: P/N 830-024-003 Switzerland: P/N 830-061-003 Taiwan: P/N 830-002-011 UK/ Ireland: P/N 830-060-102

SPECIFICATIONS

Product Name:	DPS-16A DC Power Supply Module
Part No.:	041P011-001
Chassis Compatibility:	Xedge 6160 DC (010B204-001) Xedge 6280 DC (010B210-001)
Power Redundancy:	Xedge 6160 DC: Up to 2 power modules per chassis; one power feed. Xedge 6280 DC: Up to 4 power modules per chassis; up to 2 power feeds.
Input Voltage (nom.)	-48 VDC nominal, (-42 to -70 VDC)
Input Current:	27A at -48 VDC
Service Current Rqmt:	15 A
Max. Consumption:	350 W for Xedge 6160 DC chassis 750 W for Xedge 6280 DC chassis
Fuse Rating:	10 A, 250 VDC for each supply
Heat Dissipation:	4,600 BTU/hr maximum
Compliance:	CISPR 22 Class A UL recognized (UL 1459) c-UL recognized (CSA C22.2 #255) TUV licensed (EN60950) CE Mark
Temp, oper:	32 to 122 deg. F (0 to 50 deg C)
Temp, non-oper:	-40 to 158 deg. F (-40 to 70 deg. C)
Humidity:	Up to 95% without condensation
Altitude, oper:	0 to 10,000 ft (0 to 3,047 m)
Altitude, non-oper:	1 to 40,000 ft (0 to 12,191 m)

Xedge Power/Mgmt

Xedge 6002 AC Chassis Power Supply



Partial view of chassis rear panel showing AC power connections.
(Internal power supply not user accessible.)

SPECIFICATIONS

Product Name:	Xedge 6002 AC Chassis
Part No.:	200B010-001
Power Supply:	Integral AC power supply cannot be accessed or replaced in the field.
Input Voltage (nom.):	90 - 264 VAC auto-ranging
Input Frequency:	47 - 63 Hz
Fuse Rating:	1.6 A Fast Blow 250 V
Max. Consumption:	150 W
Compliance:	CISPR 22 Class A UL recognized (UL 1459) c-UL recognized (CSA C22.2 #255) TUV licensed (EN60950) CE Mark
Temp, oper:	32 to 122 deg. F (0 to 50 deg C)
Temp, non-oper:	-40 to 158 deg. F (-40 to 70 deg. C)
Humidity:	Up to 95% without condensation
Altitude, oper:	0 to 10,000 ft (0 to 3,047 m)
Altitude, non-oper:	1 to 40,000 ft (0 to 12,191 m)
Supplied Power Cord:	One (US 120 V) supplied.
Power Cord Options:	Supports customer-supplied AC power cord in the following countries: Austria, Australia, Belgium, Brazil, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Israel, Italy, Latvia, Lithuania, Hong Kong, Hungary, Ireland, Luxemburg, Malta, Mexico, Netherlands, Norway, Poland, Portugal, Rumania, Russia, Saudi Arabia, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

System Management Module

The Xedge System Management Module (SMM) plugs into a dedicated on the back panel of the Xedge 6160 or Xedge 6280 chassis, providing the following local management capabilities:

Craft Ports

The SMM provides two craft ports for system management.

- The MANAGER craft port connector allows an asynchronous terminal connection for local configuration and management of the switch via Slot-0.
- The MGR STBY craft port is typically used by field service personnel to connect to Slot-1 of the Xedge 6160 switch for troubleshooting/debugging purposes.

Security Lock

The SMM front panel also provides an ON/OFF rotary switch serial port lock with removable key. This security feature locks the MANAGER and MGR STBY craft ports.

Alarm Port

The SMM alarm port allows external alarm monitoring for the Xedge status of major, minor and fan alarms.

