

FlexPoint® DC Powered Chassis



User Manual

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Environmental Notices

The equipment covered by this manual must be disposed of or recycled in accordance with the Waste Electrical and Electronic Equipment Directive (WEEE Directive) of the European Community directive 2012/19/EU on waste electrical and

electronic equipment (WEEE) which, together with the RoHS Directive 2015/863/EU, for electrical and electronic equipment sold in the EU after July 2019. Such disposal must follow national legislation for IT and Telecommunication equipment in accordance with the WEEE directive: (a) Do not dispose waste equipment with unsorted municipal and household waste. (b) Collect equipment waste separately. (c) Return equipment using collection method agreed with Omnitron.



The equipment is marked with the WEEE symbol shown to indicate that it must be collected separately from other types of waste. In case of small items the symbol may be printed only on the packaging or in the user manual. If you have questions regarding the correct disposal of equipment go to www.omnitron-systems.com/support or e-mail to Omnitron at intlinfo@omnitron-systems.com.

Safety Warnings and Cautions



ATTENTION: Observe precautions for handling electrostatic discharge sensitive devices.



WARNING: Potential damage to equipment and personal injury.



WARNING: Risk of electrical shock.

Technical Support:

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Product Overview

The FlexPoint Powered Chassis is a chassis capable of holding up to 14 FlexPoint media converter modules. It is equipped with two power supplies in a power-redundant configuration.



This User Manual describes the following models:

Model Number	Model Type	Power Description
4385	FlexPoint 14-Module Chassis with two 48VDC Power Supplies	Direct DC 3-Pin Terminal, +/- 38 to 60VDC, 3.0A @ 48VDC
4386	FlexPoint 14-Module Chassis with one 48VDC Power Supply	Direct DC 3-Pin Terminal, +/- 38 to 60VDC, 3.0A @ 48VDC
4389	Spare 48VDC Power Supply for Listed Chassis	Direct DC 3-Pin Terminal, +/- 38 to 60VDC, 3.0A @ 48VDC

Unpacking, Visual Inspection and Inventory

Review the contents. The following items should be included:

- FlexPoint 14-Module Power Chassis
- 1 or 2 power supplies depending on the model ordered
- 14 L Shape Brackets to secure modules to chassis
- 14 screws for L Shape Brackets
- User Manual

Inspect equipment and immediately report any damage or discrepancies to Omnitron at 949-250-6510. If equipment is damaged, do not apply power to the equipment.

Rack Mounting

Mount and attach the chassis to the rack using the appropriate rack mounting screws (not provided).

The rack should be appropriately earth-grounded.

The operating temperature of this equipment is 0 to 50 degrees C or -40 to 60 degrees C depending on the model number. If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack must not exceed the maximum rated temperature for the chassis used.

Installation of the equipment should be such that the air flow in the front and back of the unit is not compromised or restricted.

Installing this equipment into a rack in such a way as to make it unstable may cause injury or death. Always make sure that the rack you are installing this equipment

into is properly secured, stable, balanced and designed to carry the weight and weight distribution of this equipment.

Never use this equipment to carry any weight except its own. Never use it as a shelf to support the weight of other equipment.

Installing Modules

Modules are installed in the chassis by attaching the L shaped bracket to the bottom of the module.

The side of the bracket with two holes will be installed on the module by removing the screws from the module and using them to attached the bracket to the module.

The side of the bracket with one hole will be installed on the chassis using the included screw.



Save the unused brackets in a safe place or secure them to unused chassis openings.

DC Powered Chassis Preparation and Cabling

This chassis is intended for installation in restricted access areas. ("Les matériels sont destinés à être installés dans des EMPLACEMENTS À ACCÈS RESTREINT"). A restricted access area can be accessed only through the use of a special key, or other means of security.

The over current protection for connection with centralized DC shall be provided in the building installation, and shall be a UL listed circuit breaker rated 20 Amps, and installed per the National Electrical Code, ANSI/NFPA-70.

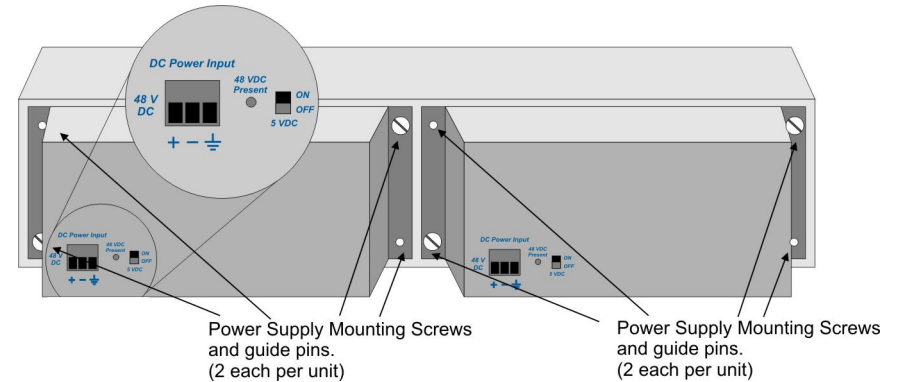
The DC Power Supplies require 38-60VDC/3.0 Amps power.

Appropriate overloading protection should be provided on all DC power source outlets utilized.

WARNING: Only a DC power source that complies with safety extra low voltage (SELV) requirements can be connected to the DC-input power supply.

WARNING REGARDING EARTHING GROUND:

- This equipment shall be connected to the DC supply system earthing electrode conductor or to a bonding jumper from an earthing terminal bar or bus to which the DC supply system earthing electrode is connected.
- This equipment shall be located in the same immediate area (such as adjacent cabinets) as any other equipment that has a connection between the earthed conductor of the same DC supply circuit and the earthing conductor, and also the point of earthing of the DC system. The DC system shall not be earthed elsewhere.
- The DC supply source is to be located within the same premises as this equipment.
- There shall be no switching or disconnecting devices in the earthed circuit conductor between the DC source and the earthing electrode conductor.



Insure that both FlexPoint Chassis power supplies are properly attached to the chassis using the mount screws and guide pins.

Insure that both FlexPoint Chassis power supply switches are in the OFF position.

Locate the DC circuit breaker and switch the circuit breaker to the OFF position.

Prepare a power cable using a three conductor insulated wire (not supplied) with 12AWG to 14AWG thickness. Cut the power cable to the length required.

Strip approximately 3/8 of an inch of insulation from the power cable wires.

Connect the ground wire to the ground terminal on the chassis by fastening the stripped end to the DC power connector (ground).

Connect the power cables to the chassis by fastening the stripped ends to the DC power connector.

WARNING: Note the wire colors used in making the positive, negative and ground connections. Use the same color assignment for the connection at the circuit breaker.

Connect the power wires to the circuit breaker and switch the circuit breaker ON.

Turn both FlexPoint Chassis power supply switches on and check the power LED's on the front panel of the powered chassis. The two LED's should be ON.

The power supplies are hot swappable and can be replaced without shutting the chassis down. However, when removing and replacing a power supply, the following removal and installation steps must be strictly followed in order to prevent serious

injury or death or serious damage to your equipment. Removal of power supplies or modules will result in access to hazardous electricity.

WARNING!!!

NEVER ATTEMPT TO OPEN THE CHASSIS OR SERVICE THE POWER SUPPLY OR FAN MODULE. OPENING THE CHASSIS MAY CAUSE SERIOUS INJURY OR DEATH. THERE ARE NO USER REPLACEABLE OR SERVICEABLE PARTS IN THIS UNIT.

Removal of DC Power Supply

Determine which power supply needs replacing by observing the LEDs in the front left of the chassis. The top LED indicates the power status of the right power supply. The bottom LED indicates the power status of the left power supply.



If the LEDs are ON, it indicates that the power supply is operational. If the LEDs are OFF, it may indicate that the DC power is not applied. Please verify that your DC power source is providing power.

Once you determine that your DC source is connected properly, and the power supply LED is still not ON, determine which is the faulty power supply unit and proceed to the next step.

Locate the DC circuit breaker, and switch the circuit breaker to the OFF position. Remove the DC power cables from the faulty power supply unit and loosen the 2 screws securing the power supply to the chassis. Remove the faulty power supply.

Installation of DC Power Supply

Unpack the power supply carefully. Inspect for any damage. If any damage is observed, do not use the power supply and call 949-250-6510 to report the damage. Attach the power supply to the chassis. Insure that the power supply switch is in the OFF position.

Locate the DC circuit breaker and make sure that the switch is in the OFF position. Reconnect the DC power source to the power supply.

Locate the DC circuit breaker and switch the circuit breaker to the ON position and turn the chassis power supply ON.

Observe the LED in the front of the chassis indicating that the power has been restored.

Specifications

Regulatory Compliances	Safety:	UL, cUL, CE, UKCA
	EMI:	FCC Class A
	ACT:	TAA, BAA, NDAA
Environmental	RoHS, WEEE, REACH	
Power Requirements	38 to 60VDC, 3.0A @ 48VDC 3-Pin Terminal	
Dimensions (W x D x H)	19.0" x 9.5" x 3.5" (482.6 mm x 241.3 mm x 88.9 mm)	
Weight	6 lbs. (2.72 kg.)	
Temperature	Commercial:	0 to 50°C
	Wide:	-40 to 60° C (-25° C cold start)
	Storage:	-40 to 80°C
Humidity	5 to 95% (non-condensing)	
Altitude	- 100 to 4,000m	
MTBF (hrs)	1 Power Supply:	43,000
	2 Power Supplies:	172,000
Warranty	Lifetime warranty with 24/7/365 free Technical Support	

Mechanical

