

SureCross™ DX81 FlexPower™ Supply Module

Delivers and manages dc voltage from one 3.6V dc lithium primary battery



Features

- Wireless solution for powering a FlexPower[™] Node and sensor device
- Unique power management system to run the FlexPower Node and a device through switched power outputs for up to five years, depending upon the power requirements of the device
- Replaceable 3.6V dc Lithium "D" cell battery
- · IP67 sealed enclosure

FlexPower systems allow for a true wireless solution as the Node can be powered by battery power (3.6 to 5.5V dc). Battery life is application specific. Contact Banner Engineering's application engineers for a battery life calculation for your specific application.

For additional information and a complete list of replacement parts, please refer to Banner Engineering's website, www.bannerengineering.com/surecross.

Models				
Model	Power	Batteries	Cable	
DX81	3.6V dc Battery	One 3.6V Lithium "D" Cell	5-pin Euro Pigtail QD	

Battery Replacement

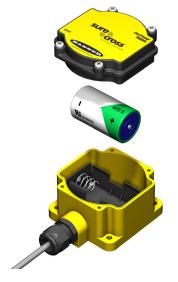


To replace the lithium "D" cell battery in the DX81 FlexPower™ battery kit,

- 1. Remove the four screws mounting the battery pack face plate to the body.
- 2. Remove the face plate.
- 3. Remove the discharged battery and replace with a new battery. Verify the battery's positive and negative terminals align to the positive and negative terminals of the battery holder mounted within the case. Caution: Risk of explosion of battery is replaced with an incorrect type.
- 4. After replacing the battery, allow up to 60 seconds for the device to power up.

When removing the battery, press the battery towards the negative terminal to compress the spring. Pry up on the battery's positive end to remove from the battery holder. Properly dispose of your used battery according to local regulations by taking it to a hazardous waste collection site, an e-waste disposal center, or any other facility qualified to accept lithium batteries.

As with all batteries, these are a fire, explosion, and severe burn hazard. Do not burn or expose them to high temperatures. Do not recharge, crush, disassemble, or expose the contents to water.



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WARNING... Not to be used for personnel protection

Never use these products for personnel protection. Doing so could lead to serious injury or death.

These products do NOT include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A failure or malfunction can cause either an energized or de-energized product output condition. Consult your current Banner Safety Products catalog for safety products that meet OSHA, ANSI, and IEC standards for personnel protection.



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Specifications

General

Mounting	#10 or M5 (M5 hardware included)
M5 fasteners - Max. Tightening Torque	0.56 N•m (5 in•lbf)
Case Material	Polycarbonate
Weight	0.26 kg (0.57 lb.)
External Cable Glands	One 1/2 NPT type
Cable Glands, Max Tightening Torque	0.56 N•m (5 in•lbf)
Connections	PVC cable; 5-pin Euro-style 150mm Pigtail QD

Environmental

Environmental Rating*	IEC IP67; NEMA 6	
Operating Temperature**	-40 to +85° C (Electronics); -20 to +80° C (LCD)	
Operating Humidity	95% max. relative (non-condensing)	
Radiated Immunity	10 V/m, 80-2700 MHz (EN61000-6-2)	
Shock and Vibration	IEC 68-2-6 and IEC 68-2-7 Shock: 30g, 11 millisecond half sine wave, 18 shocks Vibration: 0.5 mm p-p, 10-60 Hz	

- * Please refer to the SureCross™ DX80 Wireless I/O Network product manual, Banner p/n 132607, for installation and waterproofing instructions.
- ** Operating the devices at the maximum operating conditions for extended periods can shorten the life of the device.

Hookup Diagram

5-pin M12 Quick Disconnect Pinout



3	Blue	dc common (GND)
5	Gray	3.6 - 5.5V dc

Do not apply more than 5.5V dc to the gray wire.

Only FlexPowerTM DX80 devices may be powered from this supply.

The manufacturer does not take responsibility for the violation of any warning listed in this document.



CAUTION . . . Make no modifications to this product.

Any modifications to this product not expressly approved by Banner Engineering could void the user's authority to operate the product. Contact the Factory for more information.

Always use lightning arrestors/surge protection with all remote antenna systems to avoid invalidating the Banner Engineering Corp. warranty. No surge protector can absorb all lightning strikes. Do not touch the DX80 or any equipment connected to the DX80 during a thunderstorm.

WARRANTY: Banner Engineering Corp. warrants its products to be free from defects for one year. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture found to be defective at the time it is returned to the factory during the warranty period. This warranty does not cover damage or liability for the improper application of Banner products. This warranty is in lieu of any other warranty either expressed or implied.

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