2C10 - RS232 or RS485 multi-drop electrical interface module

Overview

Electrical interface modules (EIM) connect the copper signal to digital signal for transmission over fiber via the optical interface module (OIM). The basic modem configuration consists of a power supply, an EIM, and an OIM. Additional modules may be added to configure daisy-chain, star, and self-healing ring (SHR) topologies.

Technical specification

Feature	Description
Protocols and extra features	RS-232 or RS-485 multi-drop
Communcations data rate	RS-232: 9.6K-115K Baud, RS-485: 9.6K-230K Baud, half duplex
Copper cable connector	Pluggable screw terminal 12 to 24AWG (0.5-2.4mm) cage clamp
Copper cable end termination	RS-232: N/A, RS-485: user supplied
Maximum devices and copper cable length supported per module	RS-232: 1 Unit, 50ft (15m), RS-485: 30 Units, 4000ft (1.2km)
Ambient conditions	-40 to 85°C operational, 0-95% relative humidity non-condensing
Power requirements (bus)	9Vdc @ 200mA maximum per module
Power indicator	Green LED
Communications activity indicator	Amber LED
Certfiications	CE Marked, Class I, Division 2, Groups A, B, C & D (on selected models), US and Canada
Weight	9oz
Accessories	Power supply 2A06, 2A16, 2A08, 2A18
Installation instructions	Shipped with product or available on request

TECHNICAL NOTICE: Model 2C10, RS232/RS485 Electrical Interface Module when utilized in a fully populated EOTec 2000 Fiber Optic Modem. REVISIONS AFFECTED: Currently, all revisions of the 2C10 may experience the symptoms outlined below. SYMPTOM: When utilizing the Model 2C10 in an EOTec 2000 Fiber Optic Modem and that modem is fully populated with four (4) additional interface modules (optical or electrical) and a power supply, intermittent communications errors or loss of communications may result. Removal of one of the interface modules restores communications in the other modules. FIX: A fully populated modem containing a 2C10 and four optical or electrical interface modules requires the addition of a model 2CTR termination connector. The 2CTR is plugged into the module interconnection bus on the right-hand side of the module bundle. It will add less than 0.5' to the bundle width and will not interfere with the use of the 2A09 end clamp. OBTAINING A 2CTR: Contact your distributor or Weed Fiber Optic Customer Service for additional information or to obtain the 2CTR termination connector.

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