

Power

AlphaNet™ EDH3 (CMD-P)

External DOCSIS Transponder



EDH3 (CMD-P) Transponder

- Adds DOCSIS Status Monitoring capability to existing power supplies
- DOCSIS certified, uses existing headend equipment
- Compatible with ANSI/SCTE HMS standards
- Power supply support includes: XM, AM, XM2, ZTT series
- Embedded Web server for remote diagnostics
- E-MTA performs advanced VoIP testing
- Replaces AlphaNet model EDH2 External DOCSIS Transponder

Alpha's external DOCSIS transponder provides the ability for cable operators to manage network powering through the existing cable modem infrastructure. DOCSIS certification, SNMP and HMS MIB support, and an embedded web server enable the EDH3 (CMD-P) to provide network power data quickly and easily when and where it is needed. The transponder is fully interoperable with multiple power supply models and can be accessed using any SNMP Manager.

The EDH3 (CMD-P) can also be optionally enabled as an E-MTA to perform an advanced suite of IP and VoIP tests, thus turning it into a true cross-domain test point by combining measurements available from the HFC, DOCSIS, IP and VoIP domains.

This transponder replaces the AlphaNet model EDH2 external DOCSIS transponder and is compatible with all EDH2 interface cables.



AlphaNet EDH3 (CMD-P)

General Specifications

Model:	EDH3 (CMD-P)
Power Supplies Supported:	XM2 (requires USM2 or USM2.5) XM (requires USM) Lectro ZTT, ZTT+ AM (requires RPM card)
Devices Monitored:	Power Supplies, batteries, generators reported as per ANSI/SCTE 25-3 2002 (HMS-022)
DOCSIS:	Version 2.0
DOCSIS Monitoring Protocol:	SNMP v1, v2, v3
HMS Monitoring Protocol:	SNMP v1, v2

RF Transmit/Receive

Tx Frequency Range:	5 to 42MHz
Output Power:	8 to 58dBmV
Channel Bandwidth:	6MHz
Receive Center Freq Range:	91 to 857MHz (Standard, HRC, IRC channels)
Input Level:	-15 to 15dBmV

Monitored Parameters

Power Supply Data	Power Supply Model			
	XM2	XM	AM	ZTT Series
Major Alarm:	X	X	X	X
Minor Alarm:	X	X	X	X
Input Line Voltage:	X	X ¹	X ¹	X ¹
Output Voltage:	X	X	X	X ¹
Battery Voltage:	X	X	X	X
Output Current:	X	X	X	X ¹
Standby/AC Line Fail:	X	X	X	X
Equipment/Test Fail:	X	X	X	
Enclosure Door Status:	X	X	X	X
Remote Test Control:	X	X	X	X

Notes: ¹ Requires optional cable assembly

Number of Battery Strings:	One to Four of 36V or 48V
Battery Data:	Individual Battery Voltages Battery Compartment Temperature

For contact information visit www.alpha.com

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Hardware

RF Cable Interface:	F-connector, Female, 75Ohm impedance
Local/Craft Interface:	RJ-12, RS-232, 19.2kb, N, 8, 1 (Required: Adapter to connect to PC serial port, Hyperterminal or equivalent)
Operating Temperature:	-40°F to 167°F
Humidity:	10 to 90% (non-condensing)
EMI/EMC:	FCC Part 15 Class A, CE EN50022 Class A
Warranty:	2 years

Management

NMS/EMS:	Standard SNMP Management Tools
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HMS MIBs

In addition to the standard DOCSIS MIBs, the transponder supports the following HMS MIBs:

SCTE 25-3 (HMS-022):	Interface
SCTE 36 (HMS-050):	Root
MIB SCTE 37 (HMS-072):	Tree
MIB SCTE 38-1 (HMS-026):	Property
MIB SCTE 38-2 (HMS-023):	Alarm MIB
SCTE 38-3 (HMS-024):	Common
MIB SCTE 38-4 (HMS-027):	Power Supply
MIB SCTE 38-6 (HMS-033):	Generator
MIB SCTE 38-7 (HMS-050):	TIB MIB

Ordering Information - Cables and Accessories

Model Number	Description
EDH3 (CMD-P)	AlphaNet External DOCSIS Transponder
XP-EDH2	Replaced by EDH3 (CMD-P). Current orders for model EDH2 will be fulfilled with EDH3 (CMD-P) transponder
XM2-ICK	120 Volt External DOCSIS Transponder to XM2 USM2.5 Interface Cable (875-335-20)
XM2-ICK-240	240 Volt External DOCSIS Transponder to XM2 USM2.5 Interface Cable (875-335-24)
XM/AM-ICK	Interface cable for monitoring XM with USM and AM with RPM status interface (875-335-21) RPM factory configured for AM Communications
ZTT-ICK	Interface cable for monitoring ZTT or ZTT+ (875-335-22)
ZTT-ICKZ	Interface cable for monitoring ZTT+ (875-335-23) (pre 1998 versions)
GE-ICK-OVK	Generic Wire Kit. Monitors V _(in) , V _(out) , I _(out) on power supplies without an interface card
DCO-ADPTR	Local port adaptor (875-349-10)
XP-BSC-3-6	Wire Kit, Battery Sense, 1x36V, 6'
XP-BSC-3-9	Wire Kit, Battery Sense, 1x36V, 9'
XP-BSC-6-6	Wire Kit, Battery Sense, 2x36V, 6'
XP-BSC-6-9	Wire Kit, Battery Sense, 2x36V, 9'
XP-BSC-4-9	Wire Kit, Battery Sense, 1x48V, 9'
XP-BSC-8-9	Wire Kit, Battery Sense, 2x48V, 9'
SRG-GND-BLK	Surge Protector, 75 Ohm Coax, FF with Ground Block