

Power

AlphaNet™ EDH-A2

External DOCSIS® Transponder



XP-EDH-A2

- Adds DOCSIS Status Monitoring capability to existing power supplies
- DOCSIS certified, uses existing head-end equipment
- Compatible with ANSI/SCTE HMS standards
- Power supply support includes: XM, AM, XM2, ZTT series
- Embedded Web server for remote diagnostics
- Local port interface

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 XP-EDH-A to provide power network 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.



AlphaNet EDH-A

General Specifications

General

Model: XP-EDH-A2
 Power Supplies Supported: XM2 (requires USM2 or USM2.5)
 XM (requires USM)
 Lectro ZTT, ZTT+
 AM (requires RPM card)
 DOCSIS Compatibility: DOCSIS 2.0
 Monitoring Protocol: SNMPv1

RF Transmit/Receive

Tx Frequency Range: 5 to 42MHz
 Output Power: 8 to 55dBmV
 Channel Bandwidth: 6MHz
 Receive Center Freq Range: 91 to 857MHz (Standard, HRC, IRC channels)
 Input Level: -15 to 15dBmV

Monitored Parameters

Power Supply Data

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

Hardware

RF Cable Interface: F-connector, female, 75Ohm
 Local Port Interface: USB Type B
 LED Indicators: CMTS Registration
 Upstream Activity
 Downstream Activity
 Unit Power

Environmental: -40°F to 149°F (-40 to 65°C)
 10 to 90% non-condensing humidity

Emissions: EN50022 Class A and FCC Part 15 Class A
 (Installed in power supply enclosure system)

Immunity: Surge Test per Specification (IEEE C62.41-1991)
 ESD Protection: ±8kV air discharge, ±6kV contact discharge as per (IEC 61000-4-2)

Warranty: 2 years

Dimensions (in/mm): 5.2D x 8.6W x 1.3H (132D x 218W x 33H)

Management

NMS/EMS: Standard SNMP Management Tools

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

Model Number	Description
XP-EDH-A2	AlphaNet External DOCSIS Transponder
CBL-PS-INT-01-003	Interface cable, XM, XM2 power supplies
CBL-PS-INT-01-002	Interface cable, AM/AP power supply
CBL-PS-INT-02-005	Interface cable, Lectro ZTT, ZTT+ power supplies
CBL-PS-PWR-01-001	Line voltage cable, XM, XM2, AM/AP, 120V
CBL-PS-PWR-03-002	Line voltage cable: XM, XM2, AM/AP, 220V
CBL-PS-PWR-02-002	Line voltage cable, Lectro 120VAC
CBL-PS-PWR-04-001	Line voltage cable, Lectro 220VAC
CBL-PS-BAT-04-004	Wire Kit, Battery Sense, 1x36V or 1x48V, 4'
CBL-PS-BAT-06-004	Wire Kit, Battery Sense, 2x36V, 4'
CBL-PS-BAT-08-004	Wire Kit, Battery Sense, 2x48V, 4'
CBL-PS-BAT-12-004	Wire Kit, Battery Sense, 3x48V, 4'

* Other Battery Sense Wire Kits available, call Alpha for more information

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