

Power

AlphaNet™ IDH2

XM2 Embedded Transponder



Shown with EDSM and AlphaNet XP-IDH2

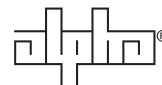
- Uses existing headend equipment
- Compatible with ANSI/SCTE HMS standards
- Single transponder supports up to six power supplies and generator
- Optional VoIP testing features
- System control
- Used with EDSM interface card

Alpha's XMS2 Digital Embedded DOCSIS® Transponder enables cable operators to manage their network powering through the existing cable modem infrastructure. Multiple power supplies, batteries and a generator can be monitored using a single transponder. Data is transmitted to a management system over the network's DOCSIS cable modem channels through the existing CMTS. Bandwidth utilization is minimized by using standard SNMP (Simple Network Management Protocol) communications. Status monitoring information is compatible with ANSI/SCTE HMS standards.

When combined with an AlphaGuard battery balancing system, battery voltage measurements and battery charge management are accomplished through a single, simple wire harness.

A single DOCSIS transponder can monitor multiple power supplies, batteries and a generator. Optional VoIP test functionality, allows power supply transponder to become a powerful network diagnostics tool.

Whether you are extending the life of your network backup power through battery balancing, managing QoS for VoIP services or monitoring for trouble areas during an AC power outage, the Alpha DOCSIS Network Power Monitor provides the tools to manage today's network power requirements with the ability to upgrade for tomorrow's needs.



AlphaNet IDH2

General Specifications

Power Supplies Supported: XM2, XM2VP
 DOCSIS Compatibility: DOCSIS 2.0
 Monitoring Protocol: SNMP v1
 Devices Monitored: Power Supply, Batteries and Generator (compatible with ANSI/SCTE 25-3 2002, formerly HMS 022)

Hardware

RF Cable Interface: F-connector, female, 750hm
 Local Interface: RJ-12, RS-232, 19.2kb,N,8,1
 Requires serial port adapter and PC with terminal emulation software (Hyper-Terminal recommended)
 LED Indicators: Transponder Ready/RF Link Established
 Transponder/CMTS Communications
 Power Supply/Transponder Communication
 Environmental: -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)
 Warranty: 2 years

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

Number of Power Supplies: Up to six, each reporting individual data
 Power Supply Data: Major Alarm (includes: test fail, battery fail, line isolation, output over load/fault, over temp, N+1 active, fuse fail)
 Minor Alarm (includes: temp probe error, AC line loss, N+1 error)
 Input AC Line Voltage
 Output Voltage
 Output Current 1
 Output Current 2,3,4 (if installed)
 Output Power
 Power Supply Status (line, standby, test in progress, test alarm)
 Enclosure Door (open/closed)
 Remote Test start/stop
 Number of Battery String: One or Two Strings of 36V or 48V
 Additional battery string monitoring available. Call Alpha for more information.
 Battery Data: Individual Battery Voltages
 Battery Compartment Temperature
 Generator Data: Status (off, running, alarm)
 (Alarm includes: low oil pressure, engine over-temp, engine over-speed, crank limit, over voltage, low fuel, water intrusion, pad shear, gas hazard, test fail)
 Gas hazard
 Water Intrusion
 Pad Shear
 Enclosure Door (open/closed)
 Ignition Battery Voltage
 Enclosure Temperature
 Low Fuel
 Generator Control: Remote test (start/stop)

Management

NMS/EMS: Cheetah™ by Tollgrade® DOCSIS Power Supply Management Software
 Standard SNMP Management Tools
 HMS MIBs: Power Supply (ANSI/SCTE 38-4)
 Generator (ANSI/SCTE 38-6)
 Transponder (ANSI/SCTE 38-3)
 Alarm/Trap (ANSI/SCTE 38-1 and 38-2)

Ordering Information

Battery Sense Wire Kits		
XP-BSC-3-6:	1x36V, 6ft	874-842-21
XP-BSC-3-9:	1x36V, 9ft	874-842-27
XP-BSC-6-9:	2x36V, 9ft	874-842-28
XP-BSC-4-6:	1x48V, 6ft	874-841-21
XP-BSC-8-6:	2x48V, 6ft	874-841-20
XP-BSC-4-9:	1x48V, 9ft	874-841-25
XP-BSC-8-9:	2x48V, 9ft	874-841-24

Extended wire lengths available. Contact Alpha for ordering information.

SI-XM2-KIT (XM2): Additional XM2 Interface Kit
 SI-XM2V-KIT (XM2VP): Includes SI adaptor and integration kit for connecting an additional power supply for monitoring. One kit required for each additional power supply (up to six total).

Contact Alpha for ordering information.

For more information visit www.alpha.com