OSM1

Power Monitoring Solution for Aurora VHub

- Remote Power Status for Aurora VHub Locations
- Ideal for Locations Where DOCSIS is Not Available
- Utilizes Aurora's Fiber Optic Interface Management Network
- Monitor Power Supply Through Aurora's Opti-Trace EMS or Through Standard SNMP Management Systems

The Optical Status Monitor (OSM1) **is designed to provide status reporting and alarming for Alpha power supplies and batteries at Aurora VHub installations when no copper RF connection is available for a traditional DOCSIS transponder connection.**

The OSM1 connects to and communicates power supply status through the Aurora management network designed for monitoring the VHub components. The OSM1 consists of an optical interface module connecting the Alpha power supply into an existing VHub using a standard fiber drop cable. Power supply data is transported to the headend via existing fiber where an Aurora controller module displays the power supply status in Aurora's Opti-Trace software and converts the data to a standard SNMP format. The power supply data can then be accessed from the operators' existing power supply monitoring software.

OSM1 Specifications

08/2014

General Details	
Power Supply Models Supported:	XM2-300HP
Maximum Number of Power Supplies:	2 per OSM1 (Requires additional SI-P interface card)
Management Protocol:	• Standard ANSI/SCTE HMS MIBs support basic power supply monitoring using SNMP • Displayable in Aurora OptiTrace

Hardware	
LED Indicators:	**Optical SFP Interface**: **TX**: Green ON = OK; OFF = bad SFP or unit not powered **AOI Module**: **A, B**: Bursts indicate communication to power supply connected to corresponding port; **OE**: Bursts indicate traffic to OE4130 Module **SIP Module**: **Com**: Bursts indicate communication with AOI module
Optical Interface:	Optical transmit/receive ports are implemented with optional Small Form Factor Pluggable (SFP) trancievers. These state-of-the art transceivers are available in a variety of transmit / receive wavelengths. Contact Aurora for more information and purchasing.

Power Supply Monitored Parameters	
Input Voltage:	Reported from power supply V(in) measurement
Output Voltage:	Reported from power supply V(out) measurement
Output Power:	Reported in AC Watts
Output Current:	0 to 25A standard
UPS Status:	AC line, standby, test in process, test alarm
Major Alarm:	**Aggregate alarm consisting of**: test fail, line isolation, output failure, output overload, output tripped, charger failure, inverter temperature, configuration error, inverter failure, no batteries, battery failure
Minor Alarm:	**Aggregate alarm consisting of**: AC line loss, battery temperature probe error
Enclosure Door:	Open or Closed
Battery Temperature:	Reported from power supply battery Remote Temperature Sensor (RTS)
Battery String Voltage:	Reported from power supply V(batt) measurement

Environmental	
Operating Temperature Range:	–40 to 75ºC (–40 to 167ºF)
Storage Temperature Range:	–40 to 75ºC (–40 to 167ºF)
Humidity:	5 to 95% non–condensing
Regulatory Compliance:	FCC Part 15 Class A, RoHS: Directive 2002/95/EC

Warranty	
OSM1	2 Years (OE4130 component subject to Aurora warranty)

Included Components	
Power Supply Interface:	SIP Module (P/N: 704-931-20), Mounting Hardware Kit (P/N: 746-114-31)
Alpha Optical Interface:	AOI, P/N: 010-360-20
Mounting Hardware Kit:	P/N: 746-114-31

Additional Required Components	
Small Form Factor Pluggable (SFP) Optical Trancievers:	Contact Aurora for more information and purchasing

Worldwide Corporate Offices

North America
Tel: +1 360.647.2360
Fax: +1 360.671.4936

Europe
Tel: +49 9122.79889.0
Fax: +49 9122.79889.21

Latin America
Tel: +561 792.9651
Fax: +561 792.7157

Asia Pacific
Tel: +852 2736.8663
Fax: +852 2199.7988

www.alpha.com