

# TRANSPONDER DOCSIS

ACCBLUTRNSP30



## Description

The ACCBLUTRNSP30 series of BLUNERY is the next generation of DOCSIS-HMS transponders and is the first DOCSIS 3.0 Transponder. It takes advantage of all the functionality built into the DOCSIS SoCs to provide added value no others can provide.

A spectrum analyzer is built into each transponder and therefore each power supply location becomes an “always on” test point for not only power supplies but also for the downstream broadband HFC network. For the price of a transponder you also get a spectrum analyzer. All models have an integrated web server that provide up to the minute display of all power supply metrics and states.

## Main Features

- More than just a transponder it’s a spectrum analyzer.
- Docsis 3.0 embedded modem.
- Temperature hardened.
- Standby power metrics and alarming.
- Integrated web server.
- Embedded or external applications.
- SCTE-HMS compliant.

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## ACCBLUTRNSP30



### SPECIFICATIONS

ACCBLUTRNSP30 - DOCSIS ®	
<b>POWER SUPPLY MONITORING / CONTROL</b>	
Battery Monitoring	Up to 4 strings or either 3 or 4 batteries per string: Voltage per battery, String voltage, String current, Temperature.
State Monitoring	Standby status and Events History. Tamper / Cabinet Door. Alarm state
Power Supply Metrics	Output voltage. Output current. Output power. Input voltage.
Standby Control	Start / Stop Standby test
<b>EMBEDDED CABLE MODEM</b>	
Specification Compliance	DOCSIS 3.0
Upstream Mode	QPSK, QAM, SCDMA
Max Operating Level (1 channel) [dbmV]	61, (QPSK) 58, (8/16 QAM) 57, (32/64 QAM )
Receiver Range [dbmV]	-15 to +15
Downstream Channel Bandwidth [MHz]	6
<b>INTERFACE AND I/O</b>	
Ethernet	1 Gbps, RJ45, Craft Mode or CPE Mode, Provisionable
Visual LED State Indicators	4 LED for modem state, 2 LED Ethernet status, 1 LED (bicolor) for RF status.
Battery Connectors	Connect wiring harness to battery strings to derive power and monitor voltages.
HMS Standard Extension Port	RJ45 - Connect generators and battery testing devices for remote control and monitoring.
RF Port	Female F
Expansion Port	Use for added value and specialized applications.
Heater Control	Interface for battery heaters.
Battery tester	Charge manager and conductance testing option available.
Generator Interface	Via HMS port. Monitors: On/OFF status, Alarm state, Gas hazard, Battery voltage, Fuel state, Remote test control.
Web UI	Power supply metrics, Cable modem metrics, Network metrics, Standby event log, Troubleshooting event logs, Generator metrics.
<b>PROTOCOLS / STANDARDS / COMPLIANCE</b>	
DOCSIS	IP / TCP / UDP / ARP / ICMP / DHCP / TP / TFTP / SNMP / HTTP
Firmware Remote Upgrade	Available
SNMP	SNMPv1, SNMPv2c, SNMPv3
MIBS	Private for added value. ANSI / SCTE 38-4. DOCSIS 3.0
Power Supply Interface	ANSI / SCTE 25-3 2005
Regulatory	FCC part 15 Class A, IEEE C62.41:1991 B3, RoHS directive 2002/95/EC
<b>ENVIRONMENTAL</b>	
Operating Temperature [°C / °F]	-40 to +70 / -40 to +158
Humidity [%]	10 to 90, non-condensing