

## ADSL2+ IP-DSLAM featuring IP/Ethernet service-aware; AC or DC models available

- ✓ *Compact (1.5U) 48-Port ADSL2+ IP-DSLAM with Integrated Splitters*
- ✓ *ADSL2+ Bonding (G.Bond) up to 6 lines*
- ✓ *Annex A/M and Annex B support*
- ✓ *Cabinet Mode Operation*
- ✓ *SELT and DELT support for loop testing*
- ✓ *Rich L2/L3 support with QoS for Triple-Play Service Delivery*
- ✓ *Manageable via ZMS, SNMP, CLI and WebUI*



The Bitstorm-RP family of compact IP-DSLAM products offer feature-rich IP and Ethernet functions and support Triple Play Services over single or bonded ADSL2+ lines. The Bitstorm-RP family features forty-eight (48) ADSL2+ ports with integrated splitters (600/900 Ohm-POTS/ISDN), two (2) integrated 100/1000BaseT and two (2) SFP based Gigabit Ethernet fiber uplink interfaces. Products in this family are available in DC or AC powered models. The compact form-factor (1.5U) and temperature hardened design of the Bitstorm-RP DC models allow deployment in remote cabinets, effectively shortening the local loop and providing high bandwidth connections to subscribers.

The Bitstorm-RP family delivers line-rate performance and triple play services supported by advanced L2/L3 features such as - DHCP Option 82, IGMP Snooping/Proxy, QoS and Security/Filtering in either Bridged or VLAN Switched operating modes. In addition, the Bitstorm-RP now supports Cabinet Mode, which is normally used on systems located in outside plant (i.e. street) cabinets which share the same binder group as DSL services originating from the CO. When configured on a DSL port, the Cabinet Mode feature disables the use of all downstream frequencies below a specified cut-off frequency and can be used to minimize cross talk and interference with CO-based DSL services.

The Bitstorm-RP features an intuitive Web Graphical Interface (GUI) with online configuration help for device management. It also supports a complete set of ADSL MIBs for SNMP based management along with ZMS integration for device fault identification, database backup and restoration.

Field-replaceable fan and filter units provide serviceability and ensure longevity in harsh environments. The Bitstorm-RP DC models are temperature hardened to operate in -40°C to +65°C range of temperature.

## Technical Specifications

### Dimensions

- 2.6" x 17" x 10.4" (HxWxD)
- 66mm x 432mm x 265mm (HxWxD)

### Power

- Source:
  - DC: -42 to -56V, Dual A+B feeds
  - AC: 100-240VAC/47-63 Hz
- Power:
  - 65 watts (nominal)
  - 96 watts (max)

### Interfaces

- 2 x 50-pin RJ-21 (LINE Interfaces)
- 2 x 50-pin RJ-21 (POTS Interfaces)
- 2 x 100/1000BaseT
- 2 x SFP Based GigE
- Serial Craft, Alarm Relay

### Standards Support

- ADSL2+
  - G.992.1
  - G.992.2
  - G.992.3
  - G.992.5
  - G.Bond
- DHCP Option 82
- IGMP Snooping and Proxy

### Protocol Support

- RFC 2684 Bridged Encapsulation
- IEEE 802.1Q VLAN w/ 802.1p Priority Queuing
- IGMPv2
- MAC and Host Address Filtering
- Secure-IP and Secure-VLAN

### Management

- SNMP, Embedded WEB Server, Telnet, CLI, RADIUS client support for management access

### Bandwidth/Distance

- Up to 28Mbps (single line ADSL2+)
- Up to 48Mbps (2 lines bonded)

### Regulatory Compliance

- ITU-T K.20
- ETSI 300-019, 300-386
- EN 60950
- CE Conformance
- RoHS

### Operating Requirements

- Operating (DC): -40°C to 65°C
- Operating (AC): -10°C to 65°C
- Storage: -40°C to 80°C
- Relative Humidity: 5% to 95% (non-condensing)

## Ordering Information

### ADSL2+ IP-DSLAM

BITSTORM-RP2-151-AC-EU	48-PORTS ADSL2+ (BRCM), ANNEX A, 600 OHM SPLITTERS (REV 2), 2+2 FE/GE, EURO AC POWER
BITSTORM-RP2-151-DC	48-PORTS ADSL2+ (BRCM), ANNEX A, 600 OHM SPLITTERS (REV 2), 2+2 FE/GE, DC POWER
BITSTORM-RP2-152-AC-NA	48-PORTS ADSL2+ (BRCM), ANNEX A, 900 OHM SPLITTERS (REV 2), 2+2 FE/GE, NA AC POWER
BITSTORM-RP2-152-DC	48-PORTS ADSL2+ (BRCM), ANNEX A, 900 OHM SPLITTERS (REV 2), 2+2 FE/GE, DC POWER
BITSTORM-RP-153-AC-EU	48-PORTS ADSL2+ (BRCM), ANNEX B, ISDN SPLITTERS, 2+2 FE/GE, EURO AC POWER
BITSTORM-RP-153-DC	48-PORTS ADSL2+ (BRCM), ANNEX B, ISDN SPLITTERS, 2+2 FE/GE, DC POWER

### FIBER SFP

SFP-GE-LX-1310-DLC	LONG-REACH (10KM) DUPLEX OPTICAL GIGABIT ETHERNET
SFP-GE-SX-850-DLC	SHORT-REACH (500M) DUPLEX OPTICAL GIGABIT ETHERNET

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