



Z H O N E

## Bitstorm-RP

ADSL2+ Reach & High Performance

### ADSL2+ IP-DSLAM featuring IP/Ethernet service-aware models in AC or, DC power

- ✓ *48-Port ADSL2+ Pizza Box IP-DSLAM with Integrated Splitters*
- ✓ *ADSL2+ Bonding (G.Bond) up to 6 lines*
- ✓ *Annex-M (Upstream) and Annex-L (Reach) Support*
- ✓ *SELT and DELT support for loop testing*
- ✓ *Rich L2/L3 support with QoS for Triple-Play Service Delivery*
- ✓ *Easy to Use Web Interface with Online Config Help*
- ✓ *SNMP support and ZMS Network Management*



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

Bitstorm-RP delivers line-rate performance and multi-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.

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

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

## Technical Specifications

### Dimensions

- 66mm (Height) x 482mm (Width) x 265mm (Depth)

### Power

- DC: -42V ~ -56V, Dual A+B feeds
- AC: 100V ~ 240V

### Interfaces

- 2 x 50-pin connectors for local loop and voice switch connections
- 2 x 100/1000BaseT
- 2 x SFP Based GigE (optional)
- Serial Craft, Alarm Relay

### Standards Support

- ADSL2+ (G.992.1 .2 .3 .5)
- ADSL2+ 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+), 48Mbps (2 lines bonded)

### Regulatory Compliance

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

### Operating Requirements

- Operating Temperature (DC): -40C to 65C
- Operating Temperature (AC): 0C to 65C
- Storage Temperature: -40C to 80C
- Relative Humidity: 5% to 95% (non-condensing)

## Ordering Information

### ADSL2+ IP-DSLAM

Bitstorm-RP-151-AC-EU	48-Port ADSL2+ Annex-A IP-DSLAM, 600 Ohm Splitters, 220V Euro AC Power
Bitstorm-RP-152-AC-NA	48-Port ADSL2+ Annex-A IP-DSLAM, 900 Ohm Splitters, 110V North America AC Power
Bitstorm-RP-153-AC-EU	48-Port ADSL2+ Annex-B IP-DSLAM, ISDN Splitters, 220V Euro AC Power
Bitstorm-RP-151-DC	48-Port ADSL2+ Annex-A IP-DSLAM, 600 Ohm Splitters, -48V DC Power
Bitstorm-RP-152-DC	48-Port ADSL2+ Annex-A IP-DSLAM, 900 Ohm Splitters, -48V DC Power
Bitstorm-RP-153-DC	48-Port ADSL2+ Annex-B IP-DSLAM, ISDN Splitters, -48V DC Power

### ADSL2+ CPE with Bonding

6228-l2-xyz	ADSL2+ Bridge/Router CPE with 2 Line Bonding and WiFi
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### ADSL2+ CPE

6238-l2-xyz	ADSL2+ Bridge/Router CPE with 2 POTS IAD and 4 FE Ports
6218-l2-xyz	ADSL2+ Bridge/Router CPE with WiFi and 4 FE Ports
6212-l3-xyz	ADSL2+ Bridge/Router CPE with 4 FE Ports
6211-l3-xyz	ADSL2+ Bridge/Router CPE with Integrated Phone Filter
xyz	(Country/Region)

### Fiber SFP

MALC-GE-SFP-LX	Long-Reach (10KM) Optical Gigabit Ethernet
MALC-GE-SFP-SX	Long-Reach (500m) Optical Gigabit Ethernet



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