



Join the copper revolution

## mBond™ Product Specification



### Interfaces

- **DSL Lines: 3 x RJ45 Socket**  
Each carries 4 twisted pairs used to transmit and receive VDSL2 signals.
- **DSL Link: 12 x LED**  
One green LED for each DSL line, indicates the state of the connection (Off/Flash/ON)
- **Traffic LAN: RJ45 Socket**  
100Base-TX/1000Base-T Ethernet port for traffic to and from the bonded link. IEEE 802.3
- **Traffic LAN Status: 2 x LED**  
Green/yellow LEDs, indicate Ethernet link state and data activity.
- **Management LAN: RJ45 Socket**  
10Base-T/100Base-TX Ethernet port for configuration, monitoring and diagnostics.
- **Management LAN Status: 2 x LED**  
Green/yellow LEDs, indicate Ethernet link state and data activity.
- **Alarms: RJ45 Socket**  
Power and Status alarms, two independently available as normally open and normally closed relay contacts. Max rating 60V DC or 42.4V AC peak.
- **Console: RJ45 Socket**  
Command line interface for diagnostic and configuration operations. RS232 levels.
- **Factory Default Reset: Switch**  
Returns volatile configuration to known state if access to the unit has been disabled.
- **Power Input: Screw Terminals**  
5-Way two part connector block with screw terminals, DC power nominally 1A @ -48V. Input range 36V - 72V, 40W typical. Dual supply feeds accepted using internal diode isolation for -48V inputs, with common 0V return. Chassis ground connection also provided.
- **Power Input LED**  
Indicates the presence of a DC input voltage at the power input.
- **System Status LED**  
Flashes to show that the CPU is operational.



## Physical characteristics construction

### Enclosure

Powder coated mild steel

### Style

19" rack mount module, 1U high

### Size (excl. brackets)

- Width 16.93in. / 430mm
- Height 1.719in. / 43.7mm
- Depth 9.33in. / 237mm

### Size (Packaged)

- Width 23.6in. / 600mm
- Height 4.9in. / 125mm
- Depth 16.5in. / 420mm

### Brackets

Removable front mounting L brackets

### Protective Earth

Rear mounted chassis connectivity

### Weight

Packaged 4Kg  
Installed 3Kg

### Cabling Access

Front only

### Ventilation Access

Sides Only

## Compliance

- RoHS
- EMC: EN 300 386
- Safety: EN 60950
- Environmental
  - Operational Temperature: 0 °C to +50 °C (ETSI 300-019-2-3)
  - Storage Temperature: -25 °C to +70 °C (ETSI 300-019-2-2)
  - IEC 60068
- CE Marked

- SNMP: V2c, and V3 over IPv4. Standard MIB-2, VDSL2
- WebUI: Management interface accessed via standard web browser

## Traffic Protocol

VDSL2 (per pair)

- Configurable band plans, profiles up to 30a supported.
- Conformance to E1T1 1.4, ITU-T G.993.2, and IEEE 802.3 10PASS-TS.
- Up to 100Mbps/100Mbps DS/US.
- Up to 4096 DMT carriers.

## Management

- CLI: A secure configuration and diagnostics interface accessed via the management port using SSH

Feature	Benefit
1 Gb/s over copper	Proven DSL Rings <sup>®</sup> technology to deliver up to 1 Gb/s over 12 copper line pairs.
Pre-provisioned	Pre-set service profiles plus auto-configuration on installation
Small footprint	1u rack mounted unit
Exploit legacy infrastructure	High throughput over existing copper line plant and existing DSLAM
Self-contained	Optional CO-CE configuration for DSLAM independent solution



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