PacketBand®-ISDN-4x-x

The PacketBand-ISDN-4x-x delivers transparent switched ISDN data services across packet networks. All ports are synchronized with central, or network clocks, providing a fully clock-locked environment across asynchronous packet networks - no there is no data loss due to free-running and slipping clocks. This system provides ISDN over Ethernet/IP networks for both voice and, more critically, data applications.

(For single-port BRI unit see the PacketBand-ISDN-1B)
(For PRI units see the PacketBand-ISDN-P range)
(For non-switched TDM services see PacketBand-TDM.)

Ordering Information

PB-ISDN-4B-B-SW
Quad BRI port unit. 4-wire "S" interface Switchable NT/TE in 2 port blocks/increments. Internal AC Power supply. 1 Gigabit SFP port for fiber connectivity.

PB-ISDN-4U-NT
Quad BRI port unit. 2-wire BRI NT interface. Internal AC Power supply. 1 Gigabit SFP port for fiber connectivity.

Optional Accessories (sold separately)

PB/cont
Replacement serial controller cable

PB/RMK/W/1
Wall mount kit

PB/RMK/2
19" rack mount kit for PB-ISDN-4B models

Features

- Product supports 4 x ISDN BRIs
- 4-wire "S" interface (NT or TE)
- 2-wire "U" interface (NT-User presentation)
- US-ANSI and Euro-ETSI ISDN available
- 2 x 10/100/1000 Base Ethernet ports
- 1 x 1GE SFP cage
- AC power only
- Transmits all/any data and voice protocols over packet networks
- Totally transparent to all data formats
- All PacketBands and interfaces locked to the same clocks
- Various clocking options with high quality clock recovery
- Any "B" channel can dial any other on the packet network, or "break-out/in" to the PSTN via a PRI/BRI "gateway"

- Provides low-cost migration to IP networks for legacy equipment
- Low data overheads
- Configurable packet size
- Compensates for "jitter" or packet delay variation
- Re-orders packets
- Very low latency or processing delay
- Local Ethernets support Rate Limiting
- Quality of Service (QoS) options
- VLAN and Double VLAN tagging
- Full cross-connectivity
- a-Law to µ-Law conversion
- Support for contention or over-booking
- Call Progress Tone generation
- Number manipulation/conversion/LCR
- Automatic Primary/Secondary/Tertiary routes

- Routing profiles can be scheduled at different times of the day/week
- ISDN Layer 2 and Layer 3 message capture and log for analysis
- Easy and intuitive to configure via GUI management package
- Compact table-top with optional rack-mount extenders

Specifications

BRI Interfaces	Support for 4 BRIs – order as 4-wire "S" or 2-wire "U":
4-wire "S" interfaces	Switchable NT/TE in pairs of ports. Crossed cable required for TE mode (can be supplied by TN) Typical driving distance – 500m (depending on attached devices). Support for a-Law to µ-Law conversion and a-Law and µ-Law tones (ring/busy etc) Overlap to En-Bloc conversion Support for Dual TEIs ETSI (Euro-ISDN) ANSI (US-ISDN) Point-to-Point and Point-to-Multipoint ETSI-DSS1 (Euro-ISDN) ETSI Q.931/921 ETSI 300-011 (Layer 1) ETSI 300-125 (layer 2) ETSI 300-102 (layer 3)* Support for SPIDs and Auto-SPID NI-1 North American National DMS-100 and 5ESS switch variants AT&T TR-62411 and ANSI T1.403
2-wire "U" interfaces	Available as NT (User) only Typical driving distance – 500m ETSI (Euro-ISDN) ANSI (US-ISDN) Support for SPIDs and Auto-SPID NI-1 North American National DMS-100 and 5ESS switch variants AT&T TR-62411 and ANSI T1.403

PRI Interface	
E1	RJ45 120Ohm balanced G.703 HDB3 encoded ESF or D4 framing ETSI-DSS1 (Euro-ISDN) ETSI Q.931/921 ETSI 300-011 (Layer 1) ETSI 300-125 (layer 2) ETSI 300-102 (layer 3)
T1	RJ45 100Ohm balanced B8Zs or AMI line coding NI-2 North American National DMS-100 and 5ESS switch variants AT&T TR-62411 and ANSI T1.403
Fiber Port (x1)	Standard SFP cage Driving distance dependant upon SFP fitted Supports data rates up to 1GE full-duplex between two units
Packet Ports (x2)	RJ45 standard twisted-pair CAT5E cable Supports data rates up to 1GE full-duplex between two units Provides management access to all units.
Serial Control Port	Local management Access password protected Asynchronous, 8 data, 1 stop bit, no parity, speed 19.2 to 115kbps

Power	(1) Internal AC PSU (1) Internal AC PSU Standard IEC connector 95-264 VAC; 15W; 47-63Hz Auto-sensing Max consumption 0.1Amps RMS @230VAC
Mechanical	Metal chassis 292w x 200d x 44h mm-1U Weight 1.1Kg Optional 19" rack-mount kits
Environment	Temperature -20 to 55 deg C Humidity 10-90% non-condensing
Maintenance	No user-serviceable parts
Warranty	5 years

TRANSITION NETWORKS®