NEW PRODUCT

DataBand

DataBand EV

The DataBand interface converter provides transparent conversion from unstructured G.703 and optionally structured G.704 to either V.11/X.21 or V.35 interfaces. In G.704 mode the unit supports speeds from a single 64kbps timeslot through to a full 2.048Mbps in steps of 64kbps. DataBand also supports full/fractional T1 circuits.

Features

- G703 to V.11 or V.35 Converter
- Optional support for G.704 (fractional) to V.11 or V.35
- 64kbps to 2048kbps in G.704 mode
- Support for T1 Interface
- E1 user switchable 75 Ohm / 120 Ohm
- Clocking hierarchy
- Fast, simple installation
- Remotely manageable via IP and serial connection
- No DIP switches - all via software GUI
- Easy to configure and manage
- Software upgradeable locally or remotely
- SNMP Trap/Alarm via North Bound Interface
- Local/Remote Loops on E1/T1 and V11/V35 interfaces.
- Managed via DbManager application
- SNMP Trap/Alarm via North Bound Interface
- RoHS Compliant

Specifications

Interfaces	1 x V11/X.21 DB15 (specify male DTE or female DCE) or 1 x V.35 MRAC (specify male DTE or female DCE) 1 x RJ45
E1	User switchable between 75 Ohm and 120 Ohm Auto-detect CRC4 or non- CRC4 framing (Multiframe or Doubleframe) CRC4 disabled if passing timeslot 0 Support of E1 and Fractional E1 services
T1	RJ45 100 Ohm balanced T1 ESF or D4 Framing selectable B8ZS or AMI Line code selectable
Control Ports	RJ11 Marked 'Cmd' Asynchronous 8 data, 1 stop bit no parity 19.2kbps to 115kbps Password protected Dry contact alarm relay Ethernet Configuration Port RJ45 10baseT/100baseT/1GE Password protected
LEDs	E1/T1 has 2 associated LEDs- Indicate Layer 1, Layer 2 and active interconnects. PWR x 1 Unlit=no power; Green=power on unit Run x 1 Slow flash=microprocessor OK and configured; fast flash=internal error or lost base configuration LAN ACT x 1 Activity on the LAN LAN 100 x 1 Off=LAN running at 10baseT; on=LAN running at100baseT
Power	**AC:** Auto-sensing 96VAC – 240VAC; Max consumption 0.2A RMS @230VAC **DC:** 4mm terminal Block; -36VDC to -57VDC 0.55A max @-48vdc
Environment	Operating 0 – 55 °C Humidity 10-90% non-condensing Natural convection cooling
Dimensions	**Width:** 8.86" [225 mm] **Depth:** 15.75" [400 mm] **Height:** 1.73" [44 mm]
Warranty	5 year hardware
Support	Support packages available

Ordering Information

DV-EV(V35)-AC
DataBand EV T1/E1 to V.35 converter. AC power, DCE interface, selectable to DTE. Includes serial control cable and DbManager Lite.

DV-EV(V35)-24VDC
DataBand EV T1/E1 to V.35 converter. 24VDC power, DCE interface, selectable to DTE. Includes serial control cable and DbManager Lite.

DV-EV(V35)-48VDC
DataBand EV T1/E1 to V.35 converter. 48VDC power, DCE interface, selectable to DTE. Includes serial control cable and DbManager Lite.

DB-EV-AC
DataBand EV T1/E1 to V.11/X.21 converter. AC power, DCE interface, selectable to DTE. Includes serial control cable and DbManager Lite.

DB-EV-24VDC
DataBand EV T1/E1 to V.11/X.21 converter. 24VDC power, DCE interface, selectable to DTE. Includes serial control cable and DbManager Lite.

DB-EV-48VDC
DataBand EV T1/E1 to V.11/X.21 converter. 48VDC power, DCE interface, selectable to DTE. Includes serial control cable and DbManager Lite.

Optional Accessories (sold separately)

PB/cont
Replacement serial controller cable

PB/RMK/3/S
19" rack mount kit for single unit

PB/RMK/3/D
19" rack mount kit for 2 units side by side

TRANSITION NETWORKS®

NEW PRODUCT

DataBand EV

Technical Overview

Routing

A simple and intuitive GUI (Graphical user Interface) makes configuring and routing timeslots fast and easy, with an excellent overall view of E1 to V11/V35 connections.

When running G.703 mode virtually no configuration is required.

Any combination of timeslots can be configured for conversion to the V.11/V.35 interface – they do not need to be consecutive.

DataBand is completely transparent to all data and signalling

Configuration/Management

DataBand is configured and managed by DbManager

DbLite is supplied with the product and allows visibility of one unit via an intuitive GUI. The optional full version of DbManager supports multiple real-time workstations, provides network-wide visibility of all units and their status.

Configuration/management sessions can be established remotely or locally through the unit's serial port or optional Ethernet port.

SNMP Traps & Alarms are optionally supported.

Clocking

Software-selectable clock source

High quality 0.15ppm internal clock

From G.703/4 when V.35/X.21 is a DCE (female) connector

Clocks from V.35/X.21 when a DTE (male) connector is specified

Clocking hierarchy with auto-switchover between clocks with no user impact. Auto recovery to higher priority clocks when they become available.

Real-Time Clock

Internal battery-backed real-time clock for Event Log time-stamps and debugging purposes.

Events

Events can be reported automatically to the DbManager via the local serial port or the optional Ethernet.

DbManager writes all Events and Alarms to a flat .csv file in realtime and this file can be manipulated by external tools to format and extract information.

Routing and Summary Windows

A choice of easy to understand summary windows display the routing configurations. These include a complete display timeslots in use.

Diagnostics

DataBand provides excellent diagnostic and debug tools with loops able to be set in either direction on any port.

Visibility of control lead status via the DbManager.

Approvals

The DataBand "EV" benefits from a wide range of Safety and Emissions approvals.

Equipment is RoHS compliant.

Configuration

Held in non-volatile RAM (retained during power off) and downloadable to/from the DbManager. Configuration files can be saved to a file on a PC.

Software

New versions of software can be remotely uploaded to DataBand via the DbManager. This is loaded to an off-line sector of FLASH and a confirmation check-sum given. The operator can switch software banks at any time and revert to the original software at any time. If the DataBand is unable to run from the new software, it will revert to the original.