RAMSAT ROP24

High Speed Data Terminal Adapters for Inmarsat MES/SES A or B type with integrated fibre optic output extension for maximum noise immunity.

Description:

ROP24 is a high performance interface converter to be used for adaption between serial asynchronous and synchronous equipment. The converter interface has the functionality similar to ISDN Terminal Adapters for easy setup and are used with a standard Windows9x/NT modem installation converting any Inmarsat A or B HSD terminal to look like an ISDN Terminal Adapter.

ROP24 is typical used to convert the synchronous interface on a standard Inmarsat A or B MES type to an asynchronous ISDN compatible terminal adapter for any PC to dial into the terrestrial ISDN network by satellite.

ROP24 is preferred to the standard product RVP24 in harsh electric environments like ships and platforms or military installations where the fibre optic cable replacement makes it possible to have until 2000 mtr between the PC and the satellite terminal. The dial facilities depends on the satellite MES terminal features but are typical DTR dialing or V25bis protocol controlled by ATD commands to the Ramsat unit.

The interface unit has different switchable modes of operation, which make it possible to adapt to different types of equipment and applications. As the typical application involves interfacing to communication equipment, dial up control is a vital part of the different modes.

Features:

- **External adapter with easy setup and standard Windows9x/NT modem installation.**
- **Efficient transfer protocols with high throughput. HDLC or proprietary HASC for PC to PC data transfer. Asynchronous PPP for Network and Internet dial up by standard Dial Up Network setup.**
- **AT command control mode, async to sync rate conversion in data mode.**
- **Dial up control by ATD command, V25bis protocol or DTR controlled (Hotdial).**
- **Extreme noise immunity due to the fibre optic cabling until 2000 m.**
- **Small physical and very robust design. Low power consumption**

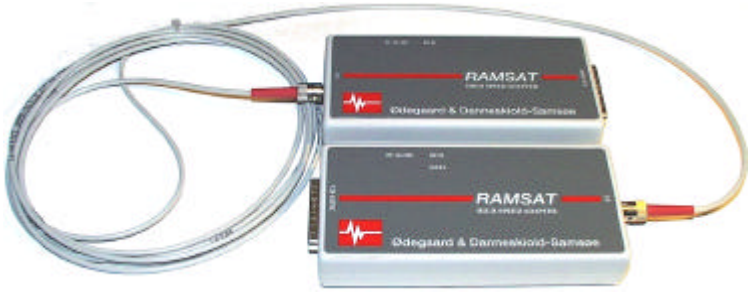
Applications:

The typical application for RAMSAT is PC to PC data transfer by a satellite communication link, a PC calling into a Network server for data exchange or the Internet for mail or information exchange. The PC can be stand alone or part of a network (gateway). The remote PC is typical interfaced to a mobile satellite terminal (MES) and another could be located at a fixed location (office) connected to the terrestrial ISDN network by a Terminal Adapter (TA). The ISDN TA could be setup for async to sync conversion with HDLC transfer ptotocol or asynch PPP conversion, or it could have a synchronous interface similar to the mobile unit and have the async conversion done by another RAMSAT converter. Connection and data transfer is controlled by the application SW and is only restricted by the choice of interface mode.

RAMSAT

Type ROP24

Specifications:



Asynchronous Char Format:

10bit words: 1 start bit, 8 data bit , no parity, 1 stop bit (8N1).

Asynchronous Rate Setting:

Default switch setting or AT command controlled:

115200, 57600, 38400, 19200 bit/s

Synchronous Rate Setting:

Controlled by external clock 2.4 to 64kbit/s independent from asynchronous rate setting.

Flow Control: **RTS/CTS.**

Dial Control: **AT command controlled V25bis protocol or DTR dial.**

Internal Protocols: **Async PPP (Internet), Transparent HDLC, Ramsat HASC Transfer Protocol.**

LED Indicator: **Power On, DCD, TX Data, RX Data, Optic Link Carrier.**

Connectors: **Asynchronous Input: DB25S (female)**

Synchronous Output: DB25P (male)

Optic Link: ST style.

Fibre Optic Cable: **62.5/125µm single glass fibre, maximum length 2000m.**

Dimensions: **H x W x D: 67 x 130 x24 mm (2,6" x 5.1" x 0.9")**

Weight: **0.16Kg. (0.35lb)**

Accessories Included:

Mains adapter, DB25/DB25 extention cable, DB9/DB25 extension cable

Manual, Windows Modem driver.

EOTECH ApS

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