

SØDA

ISDN S-Bus adaptor for InmarsatSM & VSAT



Use normal low-cost dial-up ISDN devices with Inmarsat & VSAT terminals

The 7E Communications ISDN S-Bus adaptor provides a unique interface between the dial-up ISDN S-interface and the serial ports commonly found on VSAT terminals and all Inmarsat-A & B terminals.

Many attractive low-cost ISDN products such as PC based video conferencing systems, routers, Group IV faxes and PCMCIA cards are only supplied with an ISDN S-Bus interface. However most satellite communications equipment requires a serial interface, resulting in restricted choice and increased costs for the user. The 7E S-Bus adaptor solves this problem by providing both a local S-Bus and two serial interfaces (one for each B channel). The RJ45 from the ISDN device is simply plugged into the adaptor which simulates the ISDN protocol for both outgoing and incoming calls and then presents the 64kbps data stream at the serial interface(s).

The adaptor provides a number of methods for call setup and control, a DTMF interface provide a full dialing capability with suitable Inmarsat-B equipment such as that from CMI and Nera via a spare telephone port. An even simpler solution uses hardware handshaking; on receipt of a call request the adaptor raises DTR and signals the ringing signal to the calling device, then when DCD is returned the call is signalled as answered, a similar procedure is followed for incoming calls.

The adaptor is compatible with the Inmarsat-B system and only requires a single adaptor located with the mobile terminal, or pair of terminals if 128kbps capability is required.

ISDN connection

*ITU-T 1.430
2 parallel RJ45 sockets*

Protocol

*Layer 2 Q.921 ETSI Euro-ISDN
Layer 3 Q.931 ETSI Euro-ISDN*

Satellite terminal connection

*Serial (1 per B-channel), Dual elastic buffers
EIA-530 (X.21, V.36, EIA-422 & EIA-449) or
EIA-232 (V.35 via adaptor)
Internal or external 64kbps clock
2-wire DTMF (1 per B-channel)*

Power Supply

*9V DC via AC adaptor, 100-240V, 50/60Hz
or 9-12V DC via serial Interface cable*

PS1 (option)

35V 1W per port

Size & Weight

190mm x 140 mm x 47 mm, 750g

Temperature: Operating, [Storage]

0 to +40°C, [-20 to +50°C]

Relative humidity

90% non-condensing

*Specification subject to change without notice
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New Address

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