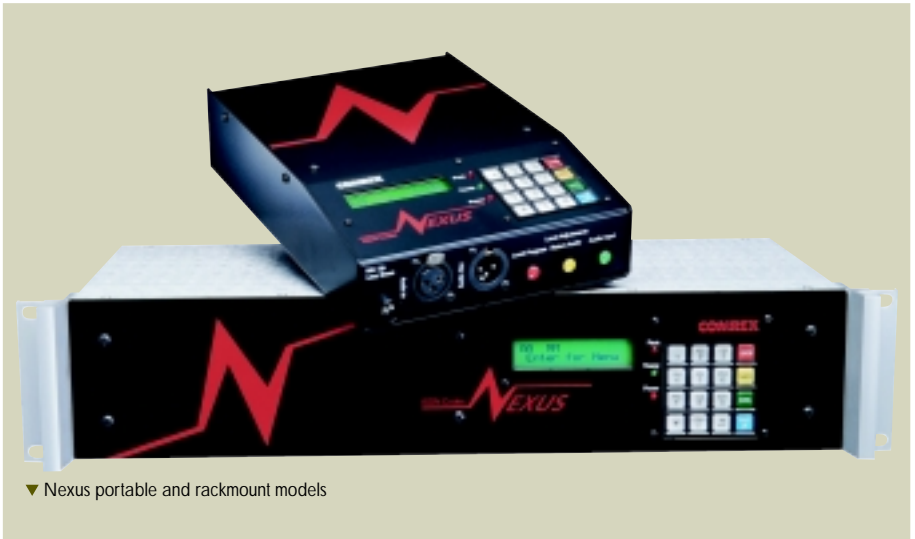


ISDN

COMREX NEXUS G.722 DIGITAL AUDIO CODEC AND TERMINAL ADAPTER

NEXUS



DESCRIPTION

The Nexus digital audio codec provides high speed G.722 coding and decoding for full-duplex audio links over ISDN. G.722 is used for news and sports reporting in organisations across the world, and is preferred for its low delay (ideal for live interviews) and reliable compatibility. A terminal adapter is incorporated into the Nexus for convenience and operational reliability. Dialling keypad, call status indicators, quick-dial functions and setup / operation controls are all built into the Nexus, avoiding the need for additional boxes and a collection of power and data cables.

The portable Nexus is an incredibly convenient tool for the roving reporter, providing a complete communications link to the studio in a small, robust housing. Balanced switchable mic/line level input, tape input, headhphone and line outputs, local and return audio level controls plus local mix, standard dialling and quick-dial features, and a universal power supply make this the ideal companion for almost any small remote broadcast.

The Nexus supports a 4800 baud ancillary serial data channel alongside the G.722 data, for remote routing, signalling, or to send information such asidents or scripts to the studio. This feature is available on straightforward single-bearer basic rate ISDN calls, with automatic rate adaption performed by the Nexus.

NEXUS G.722 CODEC AND TA

In addition to standard G.722 operation the Nexus supports high-bandwidth Turbo G.722 between Nexus codecs and Comrex DXP1, DXR.1 and DX200 codecs. Utilising the BONDING capability of the on-board terminal adapter, the Nexus can transmit and receive 15kHz audio over two ISDN bearers. This high-bandwidth, low-delay option is particularly useful for backup STL feeds; the Nexus will even autodial the transmitter codec when it receives a contact closure.

For point-to-point connections up to 3 miles, the Nexus will work on a simple copper pair, delivering 15kHz bidirectional audio without ISDN, and it can be used on fractional T1 services to deliver high bandwidth audio on existing point-to-point data circuits.

SPECIFICATIONS



AUDIO

Audio inputs	Balanced mic/line switchable XLR, 10kW
Mic level	-85 to -40dBu, front panel adjustable
Line level	-10 to +10dBu, front panel adjustable
Aux (tape) input	Unbalanced 3.5mm jack socket, -10dBu
Audio output	Balanced line level XLR, 100W, max +12dBu
Headphone output	Quarter-inch jack socket, 150W
Audio level controls	Separate controls for input (outgoing audio), return (incoming audio) and local (outgoing looped locally)



OPERATION

Modes	Single bearer (56/64kbit) G.722 (20Hz to 7.5kHz) Dual bearer (112/128 kbit) Turbo G.722 (20Hz to 15kHz) Fractional T1 and Limited Distance Modem (20Hz to 15kHz)
Ancillary data Dialling	4800 baud RS232 (available in all modes) Keypad dialling, external PC (AT command) control, last number recall, 4 programmable quick-dial keys, autodial on contact closure (STL backup)



PHYSICAL

Housing	Desktop / portable metal case
Size and weight	166 x 56 x 242mm (WxHxD), 1.2kg
Power	5V, 2A, 2mm od 2-conductor barrel plug
Mains PSU	Universal plug-top power supply
EuroISDN connection	RJ-45 S-Bus
Ancillary data connection	RS232 9-pin D-type
Rackmount Nexus	2U high housing, otherwise identical

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