

TITAN ISDN *Video Codec*



General

The integrated So Interfaces allow the TITAN ISDN to be directly connected to the ISDN Network. TITAN ISDN can be used for Business Videoconferencing and, with its integrated special features such as Motion Video Cursor, is ideal for Tele-medicine applications.

Functions

A Video Crossbar for the connection of up to 6 Cameras and 6 Monitors is integrated. The TITAN ISDN has an Interface for the direct control of two Cameras with Pan & Tilt Heads. TITAN ISDN can add and drop channels during a call without breaking the connection as well as transmitting Data over its LSD and HSD Channels. A high resolution picture can be transmitted by use of an optional Graphics Codec.

- Video Codec with three integrated So Interfaces for data rates up to 384-kbit/s
- Operating according to the H.320 Video Conference Standard
- Integrated Inverse Multiplexer for up to 6 B-Channels according to H.221 and ISO/IEC 13871 (Bonding Mode 1) Standards
- Automatic Selection mode of the Inverse Multiplexing Standard according to H.244
- Automatic adaptation to 56-kbit/s Networks (Connections to USA, Japan, Taiwan can be 56-kbit/s connections)
- Audio Coding according to G.722 (7-kHz), G.728 (16-kbit/s at 3.5-kHz), G.711
- Integrated Echo Canceller with double talk capability and Automatic Calibration
- Motion Video Coding According to H.261 with CIF resolution (288 Lines x 352 Pixels) and 30 Frames per second
- Remote Diagnostics, Remote Control and Remote Software Download

Operation

• PC

PC Software is delivered with the TITAN ISDN to enable the Codec to be controlled. The Graphic User Interface allows the TITAN ISDN to be configured simply. As well as the local configuration, the far-end Codec can also be configured and controlled over the inband signalling.

• On Screen Display (OSD)

The On Screen Display function can be activated over a 3-button mouse connected to the TITAN ISDN. Self explanatory, uppercase text, allows for simple control.

Technical Data

• Network Interfaces

- 3 x BRI (So) 64 ... 384-kbit/s
- X.21 Interface 128...1920-kbit/s

• Signalling Procedures

- ITU-T H.244, H.242, H.243
- ITU-T H.331
- ITU-T H.221, ISO/IEC 13871 (Bonding Mode1)

• Audio Coding

- 7-kHz (48/56-kbit/s) ITU-T G.722
- 3.1 kHz (56-kbit/s) ITU-T G.711
- 3.5 kHz (16-kbit/s) ITU-T G.728

• Video Coding

- Coding standard ITU-T H.261
- Picture format Full CIF
- Frame rate 7.5,10,15,30 Hz
- Data rate up to 384-kbit/s

• Audio Interfaces

- 2 x Microphone XLR sockets
- Recorder in/Line in 2xRCA Phono
- Line out RCA Phono
- Recorder out RCA Phono

Ordering Information:

TITAN ISDN	229293
TITAN Graphics Codec	229520
IMUX ISO/IEC 13871 (Bonding Mode 1)	335294

Options

• Graphics Codec

The Graphics Codec encodes the picture in JPEG (Joint Picture Experts Group) format which gives a resolution 4 times higher than the motion video picture. From both ends, a painting feature for the graphics picture is implemented with the help of a cursor symbol.

• Inverse Multiplexer Software ISO/IEC 13871 (Bonding Mode 1)

A second procedure for calculating the delays in the ISDN B-Channels which uses a fixed compensation (calculated during call set-up).The software includes also an automatic search mode according to H.244.

• Video inputs

- 6xCVBS, or BNC
- 4xCVBS+1xY/C, or BNC
- 2xCVBS+1xY/C+1xRGB,Syn BNC

• Video outputs

- 6xCVBS, or BNC
- 2xCVBS+1xRGB,Syn BNC

• Data Interfaces

- LSD (Low Speed Data) V.24/RS232
- HSD (High Speed Data) V.11/X.21
- USER Input/Output TTL/SUB-D

• User Interfaces

- PC Control V.24/RS232
- Mouse V.24/RS232
- Camera V.24/RS232

• Power Supply/Dimensions/CE Label

- Power Supply 90...253V AC
- Frequency 50/60 Hz
- Power consumption typ. 100 VA
- Dimensions 133x449x450 mm

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