

**MusicTAXI VP-PRO Type TCP/UDP/IP**

[English]

<b>Description:</b>	Fully duplex audio codec with Ethernet 10-Base T-connection for remote control and the possibility to distribute audio over networks such as Intranet, ATM etc. TCP for Point-to-point connections, UDP for Broadcast and Multimedia modes. Additionally, an X.21 interface as well as optionally up to two ISDN interfaces. Configuration and operation directly on the 10 button keypad. Graphical display.
<b>Dimensions:</b>	19'', 2 U, depth: 380 mm, weight: approx. 6 kg, no fan.
<b>Power Supply:</b>	90 ... 240 V AC, 50 - 60 Hz, 0,28 ... 0,13 A, max. 25 VA
<b>Algorithms:</b>	ISO/MPEG 11172-3 Layer 2 (MUSICAM) ISO/MPEG 11172-3 Layer 3 G.711 (only over ISDN) and G.711 and G.722 with H.221 and SRT
<b>Transmission Rates:</b>	<ul style="list-style-type: none"> <li>• Ethernet: 8 ... 384 kbps</li> <li>• X.21: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, 320, 384 kbps</li> <li>• ISDN: n x 64 kbps (n=1 to 4)</li> </ul>
<b>Audio Modes:</b>	Mono, Dual Mono, Stereo, Joint Stereo
<b>Sampling Frequencies:</b>	16, 22.05, 24, 32, 44.1, 48 kHz
<b>Analog Audio Interfaces:</b>	<p>Input: 18 bit, adjustable level range from -4 to 21 dBu, impedance &gt;10k ohms / 600 ohms, single-ended input attenuation &gt;66 dB.</p> <p>Output: 20 bit, adjustable level range from -4 to 21 dBu, impedance &lt;50 ohms, single-ended attenuation &gt;40 dB according to IEC 268-2.</p>
<b>Digital Audio Interfaces:</b>	AES/EBU input and output according to IEC 958 prof. format, S/PDIF input and output according IEC 958 consumer format
<b>External Sync:</b>	<p>Selectable via menu:</p> <ul style="list-style-type: none"> <li>• DISABLED (Word clock is generated from the ISDN transmission clock)</li> <li>• DIGITAL IN (Word clock is generated from the AES/SPDIF input signal)</li> <li>• SYNC IN (Word Clock is taken over from the SYNC IN)</li> </ul>
<b>Sample Rate Converter:</b>	Standard for input and output. 32, 44.1 and 48 kHz
<b>Ancillary Data:</b>	0, 1200, 2400, 4800, 9600 baud

<b>Alarm/Control Interface:</b>	8 bit optocoupled bidirectional alarm port
<b>X.21 A:</b>	Serial transmission interface (8 .. 384 kbps)
<b>PC Remote Control:</b>	RS232/RS422 switchable. NETControl software for the remote control of one ore more MusicTAXI VP-PRO TCP/UDP/IP units over the 10Base T interface.
<b>Headroom Adjustment:</b>	Via menu from 0...20 dB
<b>Frequency Response:</b>	20 Hz to 20 kHz, +0.5/-1 dB
<b>Signal to Noise Ratio:</b>	>80 dB
<b>External Voltage Ratio:</b>	>85 dB
<b>Non-linear Distortion Factor:</b>	(a 20 kHz Filter, to f=5 kHz) at maximum level <0.06 %
<b>Crosstalk Attenuation:</b>	(interval) at 1 kHz > 100 dB
<b>Phase Error:</b>	<1.5 degree
<b>ISDN S<sub>0</sub>-Extension (optional):</b>	'Plug IN' module for master board. Extendible up to 2 x S <sub>0</sub> .
<b>ISDN D-Channel Protocols (optional):</b>	Selectable via menu. There are 12 including: ETSI, USA AT&T, USA National ISDN1, Canada DMS 100, Japan NTT, Australia, France VN3, New Zealand, etc
<b>ISDN Synchronization (optional):</b>	Selectable via menu: <ul style="list-style-type: none"> <li>• Bonding for MusicTAXI</li> <li>• Sync for CDQPRIMA, CDQ2000 and Telos Zephyr in Stereo (Layer 2), 64 &amp; 128 kbps</li> <li>• Sync for Telos Zephyr in Stereo (Layer 3), 64 &amp; 128kbps</li> <li>• No Sync / No Sync Inverse</li> <li>• G.722/H.221</li> <li>• G.722/SRT</li> <li>• AUTO</li> </ul>
<b>Ethernet Settings:</b>	<ul style="list-style-type: none"> <li>• Own IP addresses</li> <li>• Subnetmask</li> <li>• Default Gateway</li> <li>• Port (separate for remote control/audio transmission)</li> <li>• Unit name (only for remote control)</li> </ul>

<p><b>ISDN Setting (optional):</b></p>	<p>Selectable via menu:</p> <ul style="list-style-type: none"> <li>• Own number for operation at private exchange (sent during connection establishment)</li> <li>• SPID number for operation on US networks (send during establishment of a connection)</li> <li>• Accept incoming calls (telephone and MPEG): ALWAYS / NEVER / ASK</li> <li>• Accept incoming calls: own number (MSN) check yes/no</li> </ul>
<p><b>Connection Establishment:</b></p>	<p>Selectable via menu:</p> <ul style="list-style-type: none"> <li>• "Directory" using built-in telephone book with 96 entries</li> <li>• "Quick Dial" using entry number</li> <li>• "Manually" using numeric keypad</li> </ul>
<p><b>Connection Monitoring:</b></p>	<p>Online menu displays:</p> <ul style="list-style-type: none"> <li>• Peak Level Tx (send),</li> <li>• Peak Level Rx (receive)</li> <li>• IP address (optional ISDN number) of connection</li> <li>• Encoder configuration</li> <li>• Decoder configuration</li> <li>• Selected headroom setting</li> <li>• Decoder SYNC of remote unit</li> <li>• On-line connection time</li> </ul>
<p><b>Telephone Directory:</b></p>	<p>96 entries can be configured individually:</p> <ul style="list-style-type: none"> <li>• Name</li> <li>• IP address (optional ISDN number)</li> <li>• Audio configuration</li> <li>• Type of Ethernet Connection (Point-to-point, Broadcast Send...)</li> <li>• Optional ISDN SYNC mode (name of partner codec)</li> </ul>
<p><b>Software Download:</b></p>	<ul style="list-style-type: none"> <li>• From Internet Server or</li> <li>• From the floppy disk on the PC over the RS232/422 interface</li> </ul>

<p><b>Test Possibilities:</b></p>	<p>Selectable via menu:</p> <ul style="list-style-type: none"> <li>• Analog Audio Loop</li> <li>• AES test including check of format: Validity, parity, code, lock, confidential, measured sampling frequency, exactness of measured sampling frequency, format and format specific information</li> <li>• Display of Software version and serial number</li> </ul>
<p><b>Approvals:</b></p>	<p>The VP-PRO TCP/UDP/IP is designed according to protection class 1 (EN 60950/VDE 0805/IEC 950). The Declaration of Conformity constitutes the conformity with the EG Regulations: EMC 89/336/EWG and 72/23/EWG.</p> <p>The MusicTAXI VP-PRO TCP/UDP/IP corresponds to the EMC harmonised standards DIN EN 55103-1 (June 97) - interference radiation, ambience E1 and DIN EN 55103-2 (June 97) – resistance to jamming, ambience E5.</p> <p>The MusicTAXI VP-PRO TCP/UDP/IP is a telecommunication unit and has the following national approval for EURO-ISDN: A 120371F</p>
<p><b>Production:</b></p>	<p>The VP-PRO TCP/UDP/IP is manufactured by a subcontracted company certified according to ISO 9000 ff.</p> <p>DIALOG4 is certified according to ISO 9001</p>
<p>This document is subject to changes without further notice.</p>	<p style="text-align: right;">Last updated: October 2000</p>