

# TT1100 MPEG-2/DVB PROFESSIONAL MULTI-CHANNEL DECODER

The TT1100 is the TANDBERG Multi-Channel Decoder for operations of analog and digital networks. The product can receive and decode MPEG-2 signals from a wide range of front-end interfaces and Conditional Access systems. Unlike other products the TT1100 can process up to 7 services simultaneously.

The TT1100 is designed for professional decoding and monitoring applications such as Distribution, DVB-C, DVB-S & DVB-T.

- Major DVB open CA systems supported
- Offer a wide range of input interface options
- Compact solution for multi-channel decoding



## Key features

- Decode up to 7 services in one 3RU unit
- DVB ASI, QPSK, QAM, ATM/G703 input interface options
- Analogue composite video and audio outputs
- Teletext and other VBI signals
- Digital Video and audio output option
- Ethernet SNMP Remote Control and TANDBERG Device Controller (TDC)
- RS232 data output

## Models

- TT1100 with DVB ASI input
- TT1100 with QPSK demodulator input
- TT1100 with QAM demodulator input
- TT1100 with G703 input
- TT1110 with ATM input
- TT1125 for telecom racks

## Options

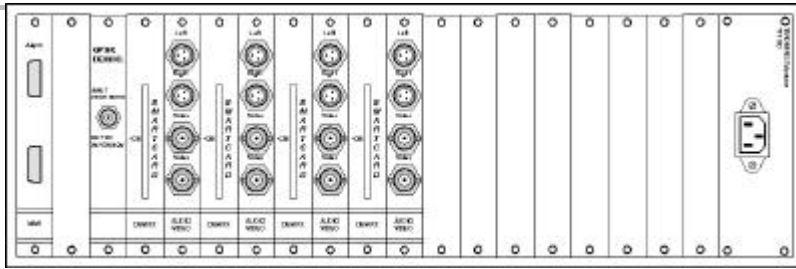
- Ethernet SNMP Remote Control
- Number of TV channels: 1-7
- Up to 20 balanced or 30 unbalanced extra audio channels
- Digital video and audio out
- DVB ASI Transport Stream output
- CA options: Conax, Irdeto, Mediaguard, Nagravision, Viaccess, Fixed-key and Signal Protection
- -48 V DC power supply
- TS Monitor module – TT4005

## New Function planned

- OFDM demodulator
- PoS (Pocket-over-Sonet/SDH)
- Letterbox format
- DVB Subtitling

# TT1100 MPEG-2/DVB PROFESSIONAL MULTI-CHANNEL DECODER TECHNICAL SPECIFICATION

<b>INPUT OPTIONS</b>	<p>DVB ASI DVB Parallel / SPI / LVDS QPSK Demodulator</p> <ul style="list-style-type: none"> <li>• Frequency range: 950 – 2150MHz</li> <li>• Symbol rates: 2 – 30.5 Msym/s</li> <li>• LNC power: 13V, 18V or off</li> <li>• 22KHz tone</li> </ul> <p>QAM Demodulator</p> <ul style="list-style-type: none"> <li>• Channel Bandwidth: 8MHz</li> <li>• Tuner frequency range: 50 – 860MHz</li> </ul> <p>TANDBERG Television Proprietary G.703 interface:</p> <ul style="list-style-type: none"> <li>• G.703 compliant PDH bit-rates: 2, 6, 8, 34, and 45Mbit/s</li> </ul> <p>ATM/SDH input interfaces</p> <ul style="list-style-type: none"> <li>• G.703 compliant PDH (AAL-1) bit-rates: 34 and 45 Mbit/s</li> <li>• (AAL-5) 155Mbit/s electrical or optical SM/MM</li> <li>• (AAL-1) 155Mbit/s electrical or optical SM/MM</li> </ul>	<p>Connector: BNC (female) Connector: 25-pin D-type Connector: F-type (female), 75 ohm</p> <p>Connector: F-type (female), 75 ohm</p> <p>Connector: BNC (female)</p> <p>Connector: BNC (female)</p>
<b>OUTPUTS</b>	<p>Analogue video output – Composite PAL/NTSC Digital video output, CCIRRec, 601 (option) Analogue audio output Digital audio output AES/EBU (option) Asynchronous RS-232 data output with data rates up to 38.4kbaud/s DVB ASI output (option)</p>	<p>Connectors: 2 x BNC (female) Connectors: 2 x BNC (female) Connectors: Mini XLR, balanced (male) Connectors: 2 x BNC (female)</p> <p>Connector: 9-pin D-type Connector: BNC (female)</p>
<b>FEATURES</b>	<p>Decoding of up to 6 TV channels (7 with ASI i/p) Automatic selection of PAL/NTSC Complete DVB PSI/SI processing PSI/SI disable for non-DVB signal handling ATSC service selection Flexible VBI handling</p> <ul style="list-style-type: none"> <li>• Transcoding of DVB teletext, reinserted in PAL output (VBI)</li> <li>• Wide Screen Signalling (WSS) and Video Programming System (VPS)</li> <li>• Test Signal (VITS) generation</li> <li>• Closed Captioning (NTSC)</li> </ul> <p>Teletext subtitling</p>	<p>Auto selection of language for audio, subtitling and teletext Flexible CA handling</p> <ul style="list-style-type: none"> <li>• Conax</li> <li>• Irdeto</li> <li>• Mediaguard</li> <li>• Nagravision</li> <li>• Viaccess</li> <li>• Fixed Key scrambling</li> <li>• Signal protection</li> </ul> <p>Software and hardware upgradable on site Configurable alarm relay TS Monitoring Module – (TT4005) option</p>
<b>CONTROL</b>	<p>Front panel keypad and LCD Ethernet SNMP Remote Control (option) TANDBERG Device Controller (TDC) (option)</p>	
<b>PHYSICAL AND POWER</b>	<p><b>Input voltage:</b> 184 – 264 Vac or 90 – 132 VAC (strap selectable) or –48 VDC (optional) <b>Cooling:</b> Convection <b>Dimensions:</b> (W x D x H) 483 x 350 x 132.5mm (19" x 13.7" x 3RU)</p>	
<b>ENVIRONMENTAL CONDITIONS</b>	<p><b>Temperature:</b> In use: 0°C to +45°C      Storage: -20°C to +70°C <b>Relative humidity:</b> 5 – 95%</p>	
<b>COMPLIANCE</b>	<p>CE marked in accordance with Low Voltage Directive (LVD) 73/23/EEC and EMC directive 89/336/EEC</p>	



TANDBERG and device, are either TMs or RTMs of TANDBERG Television and subsidiaries in one or more countries worldwide.



**LINK Research Limited**  
23 Watford Metro Centre, Dwight Road,  
Watford, Herts, England WD18 9XA  
Tel: +44 (0)1923 244 233 Fax: +44 (0)1923 241 357  
email: sales@linkres.co.uk web: www.linkres.co.uk

TANDBERG Television maintains a policy of product improvement and reserves the right to modify the specifications without prior notice.  
© TANDBERG Television Ltd 2000. All rights reserved.