



TT1280 / TT1282

MPEG-2 High Definition Integrated Receiver Decoders

High definition (HD) content is a fast growth area in the world of broadcasting, so the need to move high definition content around is becoming of primary importance to many in the broadcast industry. High definition inherently implies the need for professional grade treatment of signals. The TANDBERG Television TT1280 and TT1282 integrated receiver decoders offer just that, with premier quality decoding and input/output interfaces.

The TANDBERG Television TT1280 provides MPEG-2 HD 4:2:0 decoding capability making it perfect for monitoring HD direct-to-home feeds whilst the TT1282 adds MPEG-2 HD 4:2:2 capability for contribution and distribution and high quality mobile applications. The large array of input option cards gives these units the flexibility to connect to almost any type of network.

PRODUCT OVERVIEW

Uncompromised Quality

The TT1280 and TT1282 receivers offer high quality video and audio decoding which high definition services deserve. This philosophy is carried through to the input and output interfaces which are designed to achieve the highest performance.

Flexibility

The TT1280 offers a vast variety of input interface options making the unit suitable for connecting to almost every type of network. Highlights include support for the new DVB-S2 standard as well as legacy DVB-S and DVB-DSNG satellite transmission standards. For connection to telco networks the receiver can also be fitted with G703 or IP inputs.

Secure Transmission

Security of content is all-important - something that is taken seriously by the TT1280. The TT1280 supports all major encryption systems including BISS 1 & E, RAS, Common Interface and TANDBERG Director V5 CA.

Low Cost of Operation

The TT1280 can be integrated into a TANDBERG Television Director V5 control system enabling large populations of receivers to be remotely controlled over-air from a central location - simplifying the system control structure and reducing the need for costly on-site local operators.

Transfer of Private Data

As well as providing video and audio capabilities the TT1280 also provides simultaneous carriage of additional data services. The TT1280 can receive several data formats including low-speed, high-speed and high-speed over IP data.

BASE UNIT FEATURES

TT1280 MPEG-2 HD 4:2:0 Decoding:

- TT1280 - Common Interface (TT1280/CIBAS)
- TT1280 - Common Interface, -48Vdc (TT1280/CIBAS/48V)
- TT1280 - TANDBERG Director CA (TT1280/DIRBAS)
- TT1280 - TANDBERG Director CA, -48Vdc (TT1280/DIRBAS/48V)

TT1282 MPEG-2 HD 4:2:0 and 4:2:2 Decoding:

- TT1282 - Common Interface (TT1282/CIBAS)
- TT1282 - Common Interface, -48Vdc (TT1282/CIBAS/48V)
- TT1282 - TANDBERG Director CA (TT1282/DIRBAS)
- TT1282 - TANDBERG Director CA, -48Vdc (TT1282/DIRBAS/48V)

The following features are standard on both versions:

- HD 4:2:0 Decoding
- 2 x HD SDI or ASI output
- 1 x RGB or YPrPb analog video output
- 1 x ASI or SMPTE310 input
- Frame synchronization input
- RS-232 data output
- Alarm relays
- Remote unit control (SNMP, Web or RS-232)
- High-speed VANC Data

HARDWARE OPTIONS

Transport Stream Inputs

The TT1280 and TT1282 have a single ASI input as standard. In addition the unit can also be configured with an extensive range of input connectivity options to interface with many different types of network.

QPSK Input (TT1280/HWO/QPSK)

- DVB-S QPSK satellite input
- 2 x L-band inputs

DVB-S2 Input (TT1280/HWO/DVBS2)

- 4 x L-band inputs
- DVB-S QPSK demodulation
- DVB-S2 QPSK, 8PSK demodulation

Higher Order Modulation (TT1280/HWO/HOM)

- 4 x L-band inputs
- DVB-S BPSK, QPSK demodulation
- DVB-DSNG 8PSK, 16QAM demodulation

10/100BaseT IP Input (TT1280/HWO/IP)

- MPEG Transport Stream over IP
- 1x 10/100BaseT input
- DVB IPI FEC

10/100BaseT IP Input w/FEC (TT1280/HWO/IP/PROFEC)

- MPEG Transport Stream over IP
- 1x 10/100baseT input
- ProMPEG FEC

TTV G.703 Input (DS3 & E3) (TT1280/HWO/G703)

- E3 or DS-3 inputs
- 34 or 45 Mbit/s rates

8VSB Input (TT1280/HWO/8VSB)

- ATSC 8VSB digital terrestrial input

Other Hardware Options

High-Speed Data over Ethernet (TT1280/SWO/HSEETHER)

- Ideal for telephony, IP traffic, video streaming
- Uses the RJ-45 control port
- Up to 5 Mbit/s data rate

SOFTWARE OPTIONS

Input Options

DVB-S2 QPSK (TT1280/SWO/DVBS2)

- Adds DVB-S2 QPSK capability to DVB-S2 input option card

DVB-S2 QPSK and 8SPK (TT1280/SWO/DVBS2/8PSK)

- Adds DVB-S2 QPSK, 8PSK capability to DVB-S2 input option card

DVB-S2 Low Symbol Rate (TT1280/SWO/DVBS2/LSYM)

- Enables DVB-S2 symbol rates of 1 to 5Msymbols/s

DVB-DSNG 8PSK (TT1280/SWO/8PSK)

- Adds DVB-DSNG 8PSK capability to DVB-DSNG input option card

DVB-DSNG 16QAM and 8PSK (TT1280/SWO/16QAM)

- Adds DVB-DSNG 8PSK, 16QAM capability to DVB-DSNG input option card

Conditional Access

DVB Common Interface and BISS Mode 1 & E provided as standard

RAS (TT1280/SWO/RAS)

- TANDBERG Television RAS 1 Transport Stream CA protection

RAS 2 (TT1280/SWO/RAS2)

- TANDBERG Television RAS 2 Transport Stream CA protection

TANDBERG Director V5 (TT1280/SWO/DIRV5)

- TANDBERG Television Director V5 CA
- TANDBERG Television Director V5 over-air control
- TANDBERG Television Director V5 over-air software downloads

Audio Processing

Dolby Digital® Decoding (TT1280/SWO/AC3)

- Enables Dolby Digital® decoding

Other Software Options

Password Protection of Web Browser (TT1280/SWO/PW)

- Protects Web browser from malicious or accidental changes

