

TC-1600/TD-1600 TS Compressor and Decompressor

The newly developed TS Compressor and Decompressor, TC-1600/TD-1600, are based on NEC's original lossless compression technology and realize high performance TS compression through effective reduction of Null packets and dummy data in the TS signal. ISDB-T BTS (*) can be compressed into 19.0Mbps/188byte enabling distribution through DVB-S/S2 satellite network. Even dummy and packet allocation data can be fully reconstructed at all receiving sites. TC-1600 and TD-1600 are essential devices for an effective ISDB-T SFN operation in satellite distribution network.



Features

High and Flexible TS Compression

- High quality compression of ISDB-T BTS into transmission capacity of DVB-S/S2.
- Only the necessary part of dummy data, 16byte of Read-Solomon codes and ISDB-T information, can be selected.

Multi-format

The system supports a variety of TS formats; DVB-TS as well as BTS of ISDB Tb/Tsb/Tmm/S.

Lossless Compression

- Unique compression methods innovated with NEC advanced technology [PAT. P. 2010-040120] are fully introduced.
- All important information including packet allocation and dummy data is entirely reconstructed, and the decompressed data at every different site shows full correspondence – well-suited to SFN operation.

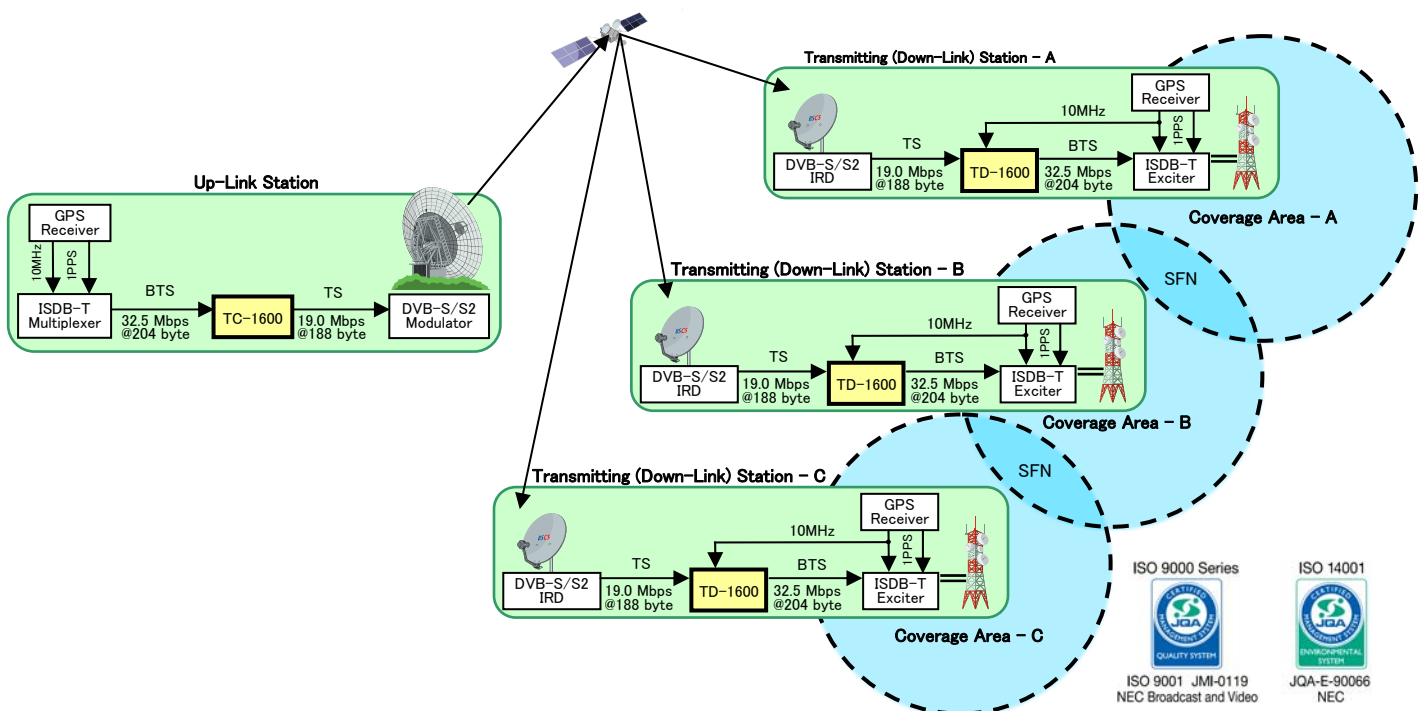
(*) Broadcasting TS of 32.5Mbps bit rate, modulated by QPSK (2/3) for 1seg and 64QAM for 12seg with full ISDB-T information.

TC-1600/TD-1600 TS Compressor/Decompressor

Specifications

	TC-1600	TD-1600
Input Signal	(1) TS (Transport Stream) signal, BNC 75 Ω x 1 - MPEG-2 TS ISDB-T BTS (204byte, 32.5Mbps) - DVB-ASI (2) External ISDB-T system clock signal: 10MHz or 512/63MHz, 0.8Vp-p/75 Ω Clock accuracy: ±0.1ppm	(1) Compressed TS signal, BNC 75 Ω x 1 - MPEG2-TS (188byte) - DVB-ASI (2) External ISDB-T system clock signal: 10MHz or 512/63MHz, 0.8Vp-p/75 Ω Clock accuracy: ±0.1ppm
Output Signal	Compressed TS signal, BNC 75 Ω x 4 - MPEG2-TS (188byte) - DVB-ASI Note) Bit rate of compressed TS depends on the amount of Null Packet in the original TS. Ex. ISDB-T BTS of 32.5Mbps modulated by 1seg-QPSK (2/3) and 12seg-64QAM (3/4) with full ISDB-T information will be compressed to be 19.0Mbps	TS signal, BNC 75 Ω x 4 - MPEG-2 TS ISDB-T BTS: 204byte, 32.5Mbps - DVB-ASI
Compress Format	NEC Original Format (PAT. P. 2010-040120)	
Operation Temperature	5 °C to 40 °C	
Power Supply	85 to 264V AC, 50/60Hz, Single or Dual Power Supply	
Power Consumption	80VA or less	
Dimensions	44 (H) × 440 (W) × 525 (D) mm	
Weight	6.5kg (Single Power supply), 7.7kg (Dual Power Supply)	

Application Example



Safety precautions

To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.

- The colours in this brochure may differ from those of the actual unit. Designs and specifications of this product is subject to change without prior notice.

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