# TS-S1631
ISDB-T Frame Sync Signal Switcher
For Terrestrial Digital Broadcasting

This unit adjusts the frame phases between individual input signals for the multiple broadcasting TS signals having a different phase relative to each other, which are compliant with the ISDB-T transmission scheme and performs system switching with the ISDB-T frame structure maintained to output the processed TS signal.
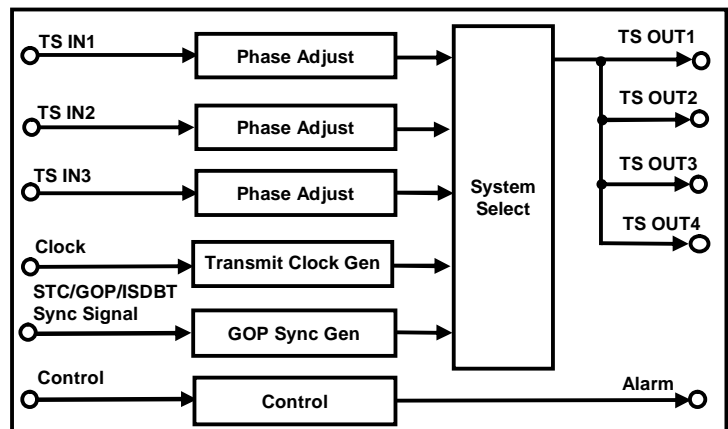
Features

Supports maximum three inputs of TS signals

The unit accepts up to three inputs of broadcasting TS signals and performs system switching with the ISDB-T frame structure maintained to output the processed TS signal.

Automatic adjustment of frame phase

The unit detects an ISDB-T frame sync signal from each input broadcasting TS signal, and automatically adjusts the frame phase difference of each input signal.

Supports seamless switching

By integrating this unit into a complete system with NEC ISDB-T sync signal generator and NEC MUX unit, you can switch between the broadcasting TS signals outputted from the main and standby MUX units with the ISDB-T frame structure maintained.

Supports dual-redundant PS

The unit supports a dual–redundant configuration for the power supplies.

NEC Corporation

http://www.nec.com/global/prod/nw/broadcast/

Specifications

Input signal	(1) Broadcasting TS signal MPEG2-TS, DVB-ASI	3 channels *1
Output signal	(1) Broadcasting TS signal MPEG2-TS, DVB-ASI	4 channels *1
Sync signal	(1) ISDB-T system clock signal or 10 MHz clock signal 0.8 Vp-p/75 , Frequency± 0.1 ppm	1 channel *2
	(2) STC/GOP/ISDB-T frame sync signal MPEG2-TS, DVB-ASI	1 channel *3
Control signal	(1) System selection (System 1/2/3) No-voltage contact	1 channel
	(2) Alarm signal Open collector	1 channel
	(3) Status signal No-voltage contact or open collector	1 channel
Operation temperature	0 ºC to 40 ºC	
Power supply	85 to 264 V AC, 50/60 Hz single phase	
Power consumption	50 VA or less	
External dimensions	44(H) × 480(W) × 525(D) mm	
Weight	9 kg or less	

*1 (1) 204 byte format, compliant with both burst mode (byte mode) and packet mode.
 (2) Supports the broadcasting TS signal of ISDB-T transmission scheme with the transmit control information (ISDB-T information) and RS error correction code added.
 (3) Supports an input TS bitrate of 32.5 Mbps, 37.9 Mbps and 43.3 Mbps.

*2 (1) In order to generate a broadcasting TS transmission clock for the output processing system in this unit, you are requested to prepare a reference signal with stable frequency accuracy such as cesium and rubidium oscillators.

*3 (1) Compliant with188 byte format, packet mode.
 (2) Inputs the output signal of ISDB-T Sync Signal Generator (TS-G1630).

⚠ 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.