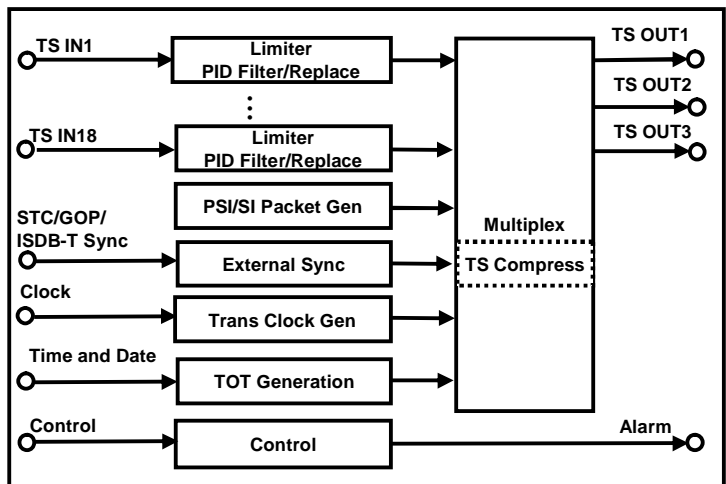# MX-3603/MX-3601
MPEG-2 TS Multiplexing Board

The MX-3603/3601 is a general-purpose multiplexing board which outputs is the multiplexed signal format of MPEG-2 transport stream. The compact-designed multiplexing board is one of the application modules mounted in NEC MF-730/XF-730 integrated signal processing platform.

XF730 Shelf

XF712 Shelf

Features

Input bitrate limiter

The packets which exceeded input bitrate limiter value don't affect the other ports so that it is rejected.

Input PID filtering and replacement

For each TS input port, the unit can filter out the undesignated PIDs and replace each input PID with a new one designated from the host controller.

PSI generation and multiplexing

The unit multiplexes not only the inputted PSI packets but also the generated PSI packets based on information from the host controller.

TOT generation and multiplexing

The unit generates TOT packets based on time and date information from the NTP server or the external clock equipment and multiplexes them together.

PCR generation and multiplexing

The unit generates PCR packets synchronized with an external STC sync signal and multiplexes them together.

Synchronizing with external signals

The unit synchronizes the transport clock, the STC value, the setting change timing and the ISDB-T frame phase with each external signal.

High speed output up to 200Mbps

Supports from 400kbps to 200Mbps output bit rate.

NEC Corporation

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

Specifications

Input signal	(1) Multiplexed data TS signal MPEG-2 TS, DVB-ASI	MX-3603: Max. 18 channels (*1) MX-3601: Max. 10 channels
Output signal	(1) Multiplexed data TS signal MPEG-2 TS DVB-ASI	3 channels (*2)
Sync signal	(1) STC/GOP Sync signal MPEG-2 TS, DVB-ASI	1 channel (*3)
	(2) 10 MHz external clock signal 0.8 Vp-p/75 Ω, Frequency±0.1 ppm	1 channel
	(3) Time and date information RS-485, BCD, Communication rate: 2400 bps, asynchronous (start-stop sync)	1 channel
Control signal	(1) LAN control via CPU Board Ethernet 100Base-TX	1 channel
	(2) Alarm signal via CPU Board No-voltage contact or open collector	1 channel
	(3) VBR data multiplex information (Option) RS-422	4 channels
Operation temperature	0 ºC to 40 ºC	
Power supply	85 to 264 V AC, 50/60 Hz single phase	
Power consumption	100 VA or less	
External dimensions	XF-730 (3U) : 132(H) × 480(W) × 500(D)mm XF-712 (1U) : 44(H) × 480(W) × 525(D) mm	
Weight	XF-730 (3U) : 20 kg or less XF-712 (1U) : 9 kg or less	

*1 (1) Compliant with both burst mode (byte mode) and packet mode.
 (2) Supports both 188 byte format and 204 byte format (no RS error correction function.)
 (3) Supports up to 4 programs and 16 types of PIDs per port (individual and range assignment.)
 (4) The number of inputs
    MX-3603: 6 ports for standard, able to increase it to max. 18 ports by optionally using MUXIF Board.
    MX-3601: 4 ports for standard, able to increase it to max. 10 ports by optionally using MUXIF Board.

*2 (1) Compliant with 188 byte format packet mode.
 (2) Supports an output TS bitrate : about 400 kbps to 200Mbps.

*3 (1) Compliant with188 byte format, packet mode.

⚠ **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.

Car. No. H01-12060051E