# NDS3108 NDS3107I

# Tuner input Multiplexer

## Outline

NDS3108 and NDS3107I Tuner Input Multiplexer is the latest demodulation and multiplexing device for digital TV broadcasting head-end system with TS output through ASI and IP port. It can multiplex up to 8 channels Tuner and 1 ASI input to one MPTS. This multiplexer has the functions of supporting auto-generation of PSI/SI information, PID re-mapping, service filtering and PCR adjusting. Also the multiplexer can insert EPG (electronic program guide), CA (conditional access), data broadcasting into output TS. In conclusion, its high integration and cost effective design make this device widely used in the CATV Broadcasting system.

## Features

- **Fully complying with ISO13818 and EN300 468 standard**
- **8 Tuner(DVB-C/S2/ (T)/ATSC optional)+1 ASI input port---NDS3107I**
- **8 Tuner(DVB-C/S2/(T) optional)+1ASI input port---NDS3108**
- **ASI and IP output**
- **Integrated demodulating and multiplexing functions**
- **Support accurate PCR adjusting**
- **Support PID filtering, re-mapping**
- **Support PSI/SI rebuilding and editing**
- **Support MPTS over UDP, RTP/RTSP output as mirror of ASI output (RJ45)**
- **Huge buffer memory for saving the overflowing code stream**
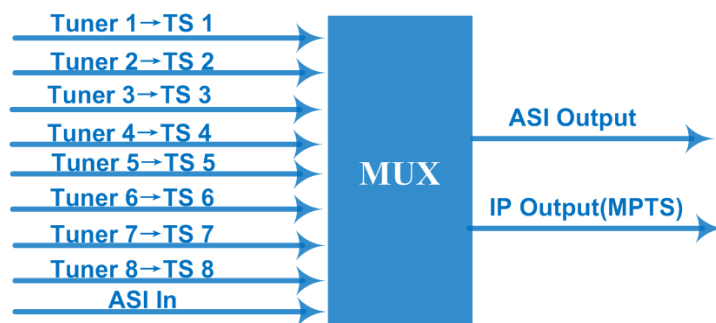- **Supporting to multiplex one program to all outputs**

- **Alarming function**
- **LCD/keyboard and Web-based NMS management**

## Principle Chart



## Specifications

| Input interface | 8 DVB-C/S2/(T)/ATSC tuners+1 ASI---NDS3107I | |
|---|---|---|
| | 8 DVB-C/S2/(T) tuners+1 ASI---NDS3108 | |
| **Re-multiplex** | PID re-mapping | |
| | PCR accurate adjusting | |
| | Automatic generating PSI/SI table | |
| **Input** | Packet format | 204/188 self-adaption |
| **Output port** | ASI | 2 * ASI output（Max180Mbps） |
| | IP | MPTS over UDP, RTP/RTPS out as mirror of ASI output (RJ45) |
| | | 100 Mbps Ethernet–**NDS3108** (Max 83Mbps) |
| | | 1000 Mbps Ethernet–**NDS3107I** (Max 280Mbps) |
| **PID** | Output range | 0x0000—0x1FFF |
| | PID transparent | Any PID transparent and mapping achievable |
| | output PID | 128 (per input channel) |
| **NMS port** | Ethernet port | 10/100M |
| **General** | Demission | 482mm×300mm×44mm (WxLxH) |
| | Temperature | 0~45℃(operation), -20~80℃(storage) |
| | Power supply | AC 110V±10%, 50/60Hz Or AC 220V±10%, 50/60Hz |

## Ordering Guide

| | NDS3108 | NDS3107I |
|---|---|---|
| **100M IP Out** | ● | |
| **1000M IP Out** | | ● |
| **ATSC** | | ● |