

Antik MX 5308 Receiver

8 x DVB to IP Multifunction Receiver (IRD)

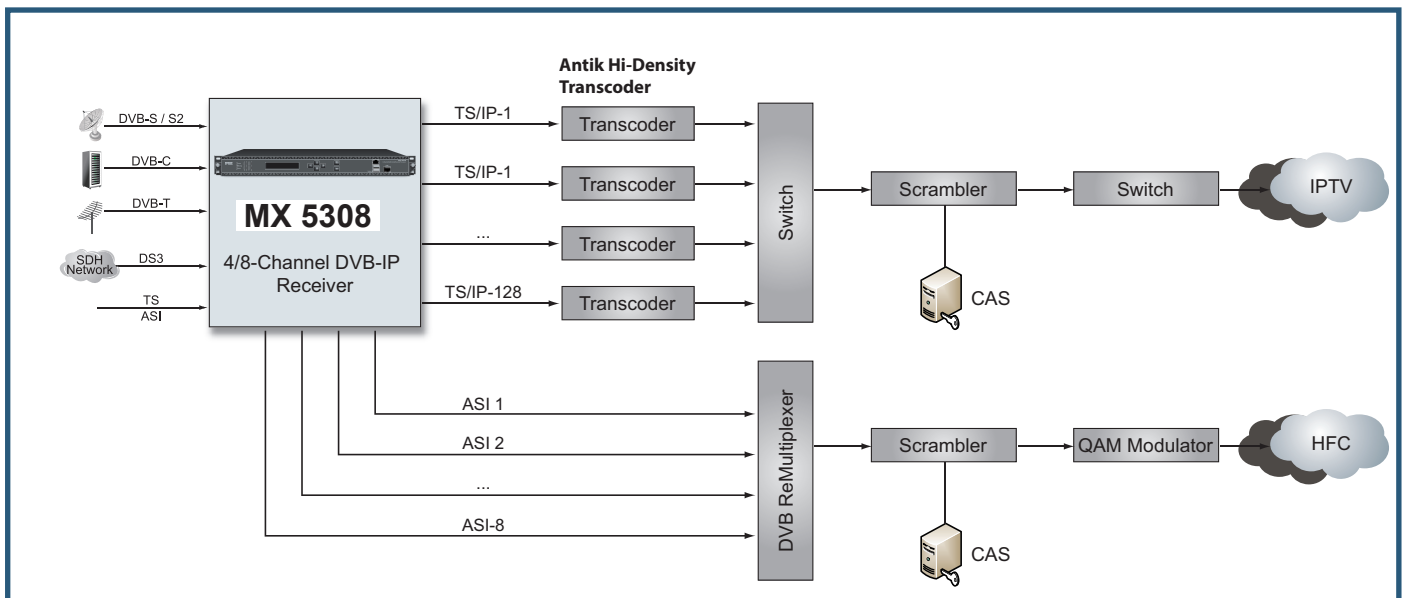
MX-5308 is a high-density, modular and CI decryption professional TS processor equipped with 8 independent tuners, which can be either of DVB-T/ T2, DVB-S2/S, DVB-C, DTMB, ISDB-T and ATSC types. It supports a wide range of application by combining 8 tuners processing capability with industry standard outputs including ASI and TS/ IP. MX-5308 has 8 DVB common interface slots capable of working with most of well-known CAS in the market to de-crypt multiple pay TV services.

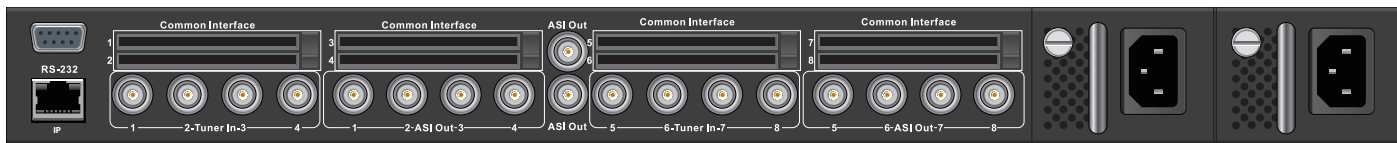
MX-5308 provides operators an ideal solution for multi receiving, remultiplexing, descrambling and TS over IP operations, the compact 8 tuners and the powerful 8 CI decryption design make MX-5308 one of the most competitive product in the head-end market.



Key Features

- 8 x Tuners Input, Supports variety of input options DVB-T2/T/S2/S/C/DTMB/ATSC/ISDB-T
- Supports DVB-S2 Input Stream Identifier (ISI, optional) and DVB-T2 Multi PLP and SFN MIP pass through
- Built-in TS re-multiplexer receives from ASI, CI Slot1 to CI Slot8 and TS/IP inputs
- 8 x DVB-CI Slots, multi-program decryption, BISS-1 and BISS-E decryption
- 8 x ASI output the transport stream from CI Slot1 to
- CI Slot8 or BISS decryption
- 1 x channel full duplex TS over IP or 9xchannels IP out without IP input
- Remote Control and Supervision by SNMP v2, HTTP WEB and Proprietary HDMS software
- On Site software update through IP or USB
- RSSI, received signal strength, Eb/N0, C/N and BER monitoring
- Redundant power supply





Back Panel MX 5308 Receiver

Specification

Tuner Input

DVB-S/S2 Tuner Input (ISI Factory Optional)

- **Connector Type** 8×F type female 75Ω for Input
- **Input Frequency Range** 950 ~ 2150MHz
- **Input Level** -25 ~ -65dBm
- **Symbol Rate** 2 ~ 45Mbaud
- **Roll-off Factor**
 - DVB-S QPSK: 0.35
 - DVB-S2 8PSK: 0.35, 0.25, 0.2
- **FEC Code Rate**
 - DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
 - DVB-S2 QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
 - DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
- **LNB Polarity Selection Voltage** 0, 13V, 18V selectable
- **LNB Band Selection Tone** 0/22KHz selectable
- **Satellite Selection Command** DiSEqC 1.0
- **ISI ID** 1 ~ 255 user configurable

DVB-C Tuner Input

- **Connector Type** 8×F type female 75Ω for Input
- **Input Frequency Range** 51 ~ 862MHz
- **Input Level** 51~75dBμV
- **Symbol Rate** 1~7Mbaud (ITU J.83 Annex A)
- **Constellation** 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
- **Bandwidth** 6MHz, 7MHz, 8MHz
- **Input Return Loss** 7dB (typ.)

DVB-T/T2 Tuner Input

- **Connector Type** 8×F type female 75Ω for Input
- **Input Frequency** 104 ~ 862MHz (VHF/UHF)
- **Input Level** -20 ~ -70dBm
- **Constellation**
 - DVB-T: QPSK, 16QAM, 64QAM
 - DVB-T2: QPSK, 16QAM, 64QAM, 256QAM
- **Bandwidth** 6MHz, 7MHz, 8MHz
- **FFT Mode**
 - DVB-T: 2K, 8K
 - DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K
- **Guarding Interval**
 - DVB-T: 1/4, 1/8, 1/16, 1/32
 - DVB-T2: 1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128
- **FEC Code Rate**
 - DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8
 - DVB-T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
- **Input Return Loss** 7dB (typ.)

DTMB Tuner Input

- **Connector Type** 8×F type female 75Ω for Input
- **Input Frequency Range** 46.5~866MHz
- **Input Level** -87~-29dBm

- **Symbol Rate** 7.56Mbaud
- **Bandwidth** 6MHz/7MHz/8MHz
- **Constellation** 4QAM-NR, 4QAM, 16QAM, 32QAM, 64QAM
- **Guard Interval** PN420, PN595, PN945
- **Roll-off Factor** 0.05
- **Interleaving Depth** 240,720
- **FEC Code Rate** 0.4, 0.6, 0.8

ATSC Tuner Input

- **Connector Type** 8×F type female 75Ω for Input
- **Input Frequency Range** 54~864MHz
- **Input Level** -75~-7dBm(ATSC 8VSB)
- **Symbol Rate** 10.762Mbaud
- **Constellation** 8VSB
- **Roll-off Factor** 0.115
- **Bandwidth** 6MHz

TS Processing

- **TS Input Management** Demux and Remux among ASI, TS/IP and CI Inputs
- **TS Output Management** Demux and Remux for ASI output
- **Service and PID Management** Service and PID level for Remux, filtering and remapping
- **PSI/SI** PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation
- **Descrambler** DVB Common Scrambling Algorithm (CSA)
- **BISS Mode** BISS-1, BISS-E
- **Common Interface** 8 x PCMCIA slots, compatible with major CA CAMs in the market

ASI Output

- **Connector Type** 9 independence BNC female, 75Ω,
- **Standard** DVB-ASI, EN50083-9
- **Output Bit Rate** ≤ 200Mb/s
- **TS Processing** 8xASI out pass through the TS from CI 1 to CI8, 1xASI Out from Remux

ASI Input

- **Connector Type** 1×BNC female, 75Ω
- **Standard** DVB-ASI, EN50083-9
- **Input Bit Rate** ≤ 100Mb/s
- **Connector Type** 1×BNC female, 75Ω

TS over IP

- **Connector Type** 1×RJ-45, 100/1000 Base-T Effective Bit Rate 200Mb/s for 9 channel IP out without IP in and IP channel 1 to IP channel 8 just pass through the TS from CI or BISS, the IP channel 9 can output the TS from ASI in or Remux. 80Mb/s for full duplex 1 channel
- **Protocol** UDP / RTP, Multicast / Unicast, IGMPv3, ARP

Alarm

- **Connector Type** 1×D-sub 9 male
- **Switching Condition** User Defined

Control & Monitoring

- **Connector Type** 1×RJ-45, 10/100 Base-T, for equipment IP Control
- **Remote Control** SNMP, HT T P (We b I n t e r f a c e), Proprietary HDMS (Headend Device Management System)
- **Local Control** LCD display and 6-key keypad
- **Serial Port** 1×RS-232 D-sub female, for debug use only
- **Equipment Upgrade** Embedded FTP loader, Telnet and http

Physical

- **Dimension** 44mm x 255mm x 430mm
- **Weight** 3.5kg
- **Power Supply** AC 90V ~ 250V, 50/60Hz
- **Power Consumption** 30W (exclusive of LNB power)
- **Operating temperature** 0~45°C
- **Storage temperature** -10~60°C
- **Operating Humidity** 10~90%, non-condensed

Certification

- **EMC:**
 - EN 55024:1998+A1:2001+A2:2003,
 - EN 55022:2006+A1:2007,
 - EN 61000-3-2:2006,
 - EN 61000-3-3:2008
- **FCC:**
 - Part 15 Class B
- **LVD:**
 - EN 60950-1:2006 + A11:2009