

Kyrion

MC3000

Universal Gateway



Highly Modular Multi-Channel Receiver

The Kyrion™ MC3000 is ATEME's multi-channel receiver tailored for large scale IPTV video head end. Built around a modular platform hosting a wide selection of modules, Kyrion MC3000 is the simplest and most comprehensive solution for operators launching or expanding their digital service offering.

The Kyrion MC3000's high density and selection of multiple sources inputs makes it the perfect solution for intensive service processing applications. Its integrated architecture offers superior reliability, while its single web-based management interface simplifies deployment and reduces maintenance routines. A user friendly GUI offers intuitive selection of services, and comprehensive management facilities featuring automatic and manual configuration possibilities.

Via the SNMP Alarm MIB, the Kyrion MC3000 can be seamlessly integrated into Skyline's Dataminer the ATEME solution for Network Management System.

KEY FEATURES

- Universal Media Gateway with IP, ASI, DVB-C DVB-T, DVB-S/S2, 8VSB inputs management
- Perfect match with ATEME's Kyrion AS2204/AM210x for highly dense IP transcoding head-end (up to 80 SD channels in one cabinet)
- Descrambling of up to 250 DVB or AES scrambled services.
- Intuitive web-based user control
- SNMP Alarm MIB for NMS integration
- 4-RU chassis with modular configuration with 16+2 board positions
- Hot-swappable modules
- Dual redundant hot swappable power supplies

ateme

Keep content looking great wherever it's played

CHASSIS

Chassis 4RU

- Modular configuration with up to 16+2 board positions
- WEB based configuration, SNMP Alarms,
- SOAP/XML interface
- Forced air-cooling
- Dual redundant hot-swappable power supply
- Hot-swappable modules
- Switch: Gbit/s routing between modules in a chassis

INPUTS MODULES

Ethernet Input w/Management

- 10/100/1000BaseT input card (RJ45)
- Mini-GBIC interface (SFP) for optical input
- Supports UDP/RTP Multicast/Unicast reception
- Supports reception of MPTS and SPTS
- Service filtering
- PCR regeneration
- 10/100/1000BaseT management port (RJ45)
- Enables WEB management

Ordering code: MC/GBIPIN-MMI

ASI Input w/Management

- 3xASI input
- BNC connectors
- 213 Mbit/s per input
- Supports reception of MPTS and SPTS
- Service filtering
- 10/100/1000BaseT management port (RJ45)
- Enables WEB management

Ordering code: MC/3ASI-MMI

DVB-C Input w/Management

- 3QAMI input
- F connector
- 0.87-6.9 Ms/s
- Supports reception of MPTS and SPTS
- Service filtering
- 10/100/1000BaseT management port (RJ45)
- Enables WEB management

Ordering code: MC/4QAM-MMI

DVB-S/S2 Input w/Management

- 4xDVB-S/S2 inputs
- F connectors
- DVB-S, DVB-S2 QPSK and 8PSK modes
- 950 – 2150 MHz Frequency Range
- 1/2, 2/3, 3/4, 5/6, 7/8, 8/9, 9/10 FEC (mode dependent)
- Supports reception of MPTS and SPTS
- 10/100/1000BaseT management port (RJ45)
- Enables WEB management

Ordering code: MC/4DVBS-MMI MC/4DVBS2-MMI

DVB-T Input w/Management

- 4xCOFDM inputs
- F connectors
- 1/2, 2/3, 3/4, 5/6, 7/8 FEC
- 2k and 8k carrier mode
- QPSK, 16QAM, 64QAM modulation
- Supports reception of MPTS and SPTS
- 10/100/1000BaseT management port (RJ45)
- Enables WEB management

Ordering code: MC/4COFDM-MMI

DVB-T2 Input

- Standards ETSI EN 300 744 and EN 302 755
- 4 x DVB-T/T2 receivers per module.
- Input ports option:
 - 1 F connector, signal is split and distributed internally
 - 4 F connectors, one per demodulator
- Frequency range 47-862MHz
- Carrier mode:
 - DVB-T: 2k, 8k
 - DVB-T2: 1k, 2k, 4k, 8k, 16k, 32k
- Modulation:
 - DVB-T: QPSK, 16QAM, 64QAM
 - DVB-T: QPSK, 16QAM, 64QAM, 128QAM, 256QAM
- Supports reception of MPTS and SPTS
- Service filtering on input

8VSB Input w/Management

- 4x8VSB inputs
- F connectors
- 50 to 860 MHz Frequency Range
- Supports reception of MPTS and SPTS
- 10/100/1000BaseT management port (RJ45)
- Enables WEB management

Ordering code: MC/4x8VSB-MMI

PROCESSING MODULES

Bulk Descrambling

- Descrambles up to 250 services (850 Mbit)
- Integrated with soft clients for ECM handling
- Support for both DVB-CA and AES descrambling
- BISS descrambling

Ordering code: MC/BDESC50, MC/BDESC100, MC/BDESC150, MC/BDESC200, MC/BDESC250

Descrambling

- 2xDVB Common interface
- Descrambling of 10 services per CAM Support for all major CA systems and CAMS

Ordering code: MC/2C1

MPEG-4 HD Decoder with SDI Output

- Dual channel SD and HD
- 2 SDI/HDSDI outputs per decoder
- MPEG2 and MPEG4 (H264) SD and HD
- VBI re-insertion
- DVB and EBU subtitling
- 2 SDI /HDSDI outputs per decoder

Ordering code: MC/ADMSDISD, MC/ADMSDISDOSDM MC/ADMSDIHD, MC/ADMSDIHDOSDM

MPEG-4 HD Dec w/SDI Output & AES audio

- Dual channel SD and HD
- 2 decoders per module
- MPEG2 and MPEG4 (H264) SD and HD
- VBI re-insertion
- DVB and EBU subtitling
- 1 SDI /HDSDI outputs per decoder
- 1 AES audio output per module

Ordering code: MC/ADMSDIAUDSD, MC/ADMSDIAUDSDOSDM, MC/ADMSDIAUDHD, MC/ADMSDIAUDHDOSDM

OUTPUTS MODULES

Ethernet Output

- 10/100/1000BaseT input card (RJ45)
- Mini-GBIC interface (SFP) for optical input
- Supports UDP/RTP Multicast/Unicast transmission
- Supports multiple of output cards
- Streaming of up to 850 Mbps
- Maximum 250 service per output card

ASI Output

- 4xASI outputs
- BNC connectors
- 213 Mbit/s per output
- 4 different multiplexed outputs
- PSI/SI regeneration

ENVIRONMENTS SPECIFICATIONS

- Operational temperature: : 0°C to +40 °C
- Operational humidity: 0% to 95% (non-condensing)
- Storage temperature: -20°C to +70 °C
- Storage humidity: 5% to 95% (non-condensing)
- AC Power Input voltage 110V/240V, 50/60 Hz
- Cooling chassis Hot-swappable fans (airflow front-to-back)
- Number of fans chassis: 4
- Dimensions chassis (w*h*d mm): 19" 4RU 400 mm depth