

kyrion AM2102

H264 / MPEG2 Broadcast Encoder

Front Panel

Confidence Audio/Video monitoring on Front panel with LCD Menus
17-keys keyboard for input & navigation
Presets import and export from USB slot
Serviceable Air Filters

Rear Panel

IP interface
1 x 100/BaseT Ethernet for band management
2 x 1000/BaseT Ethernet for MPEG-2 TS / MPTS forward

ASI interface
2 x DVB-ASI inputs
2 x ASI outputs with MPTS de-encryption/ Descrambling

Audio interface
SDI Embedded up to 16 mono channels
AES-EBU output on BNC up to 8 mono channels
Optional XLR 600 Ohms balanced Analogue audio output
Up to 8 mono channels

Video output
3 x 3G-SDI (SMPTE-424M)
Optional CVBS BNC Analog Video Output with 2 x CINCH Analog audio

Synchronization
Genlock, Black Burst Tri-level input
Genlock, Black Burst Tri-level Loop output

RF interface
1x RF demodulator with 4x selectable F-type (75 Ohms) inputs
Loop-through output
Fast Satellite Frequency locking
L-Band input, C-band band support
Frequency Range: 950-2150 MHz (L-Band)
Downlink / L-Band frequency calculator
RF input level: -65 dBm to -25 dBm
C/N, BeR, C/N margin, Link margin monitoring
Automatic or Manual DVB-S or DVB-S2 selection
Adjustable search Range

DVB-S (DSNG EN 300174)
Constellation 8PSK, FEC 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

DVB-S (EN 300421)
Constellation QPSK
Symbol rate up to 45 MBaud

DVB-S2 (EN 302307-1)
Constellation QPSK, 8PSK, 16APSK, 32APSK
Symbol rate range for QPSK up to 68 MBaud
Symbol rate range for 8PSK up to 68 MBaud
Symbol rate range for 16APSK up to 45 MBaud
Symbol rate range for 32APSK up to 38 MBaud

DVB-S2x (EN 302307*2)
Constellation QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 64APSK-L
Symbol rate range up to 54 MSps
Roll-Off: 0.35, 0.25, 0.20, 0.15, 0.10, and 0.05

Video

HEVC, Main 12, Main 4:2:2 10, Main 4:2:2 12, 60 Mbps max
H264 (4:2:0 8-bit, 4:2:0 10-bit, 4:2:2 8-bit, 4:2:2 10-bit)
MPEG2 (4:2:0 8-bit & 4:2:2 8-bit)
Video decoding MPEG-2, H264 Bitrate 60 Mbps
SD up to HD 1080p50/60
TS VBR support

Audio

MPEG-1 Layer II, AAC
Dolby Digital E, DD, DD+, AC3, AC3+, PCM pass through
Optional Dolby Digital / Dolby digital Decoding

Audio decoded
Up to 16 mono channels on SDI and AES

Audio Pass through
Up to 16 mono channels SDI
Up to 8 mono channels AES

Configuration & Management

Ultra-fast-boot
Web Graphic User Interface
Video and Audio Confidence monitoring on front panel and web GUI
128 Presets configurations memory slots
In-Band and Out-Band Management
SNMP (MIB v2c) with remote SNMP supervisor
MIB download from web GUI
Firmware Update Over-The-Air (ETSD-006)

Descrambling

BISS A/E/ (EBU R139)
DVB-CI Common Interface Hardware option to descramble
Multi services descrambling included
MPTS with support of major CAS vendors:
Conax, Irdeto, NDS, Viacross

Physical & Environmental

3.4kg/8.5 lbs.
Cooling air flow from front to back
User Serviceable Air Filters
Power supply 100-240 VAC, 50/60 Hz or 48VDC
Typical consumption 36 W
Operating temperature 0 to 55 °C / +41 ° to +131 °F
Storage temperature -20 to 70 °C / +32° to +158 °F
Operating humidity 5 to 90% (non-condensing)

Ordering References

Hardware bundles		
	Common Interface	Analog Audio output
DR5000		
DR5000I	z	
DR5000IANL	z	z
DR5000ANL		z
48 VDC PSU		
z Included	Optional	

Hardware options	
DR5000I	Common interface with 2 CAM Multi services Descrambling included
DR5000ANL	Analog audio output up to 8 mono channels. Required AES EBU included
DR5000ANL ³	Optional CVBS BNC Analog Video Output with 1x CINCH audio stereo pairs 1.3SDI output
AEXTDCBL	8 XLR Balanced Breakout cable for External AES / Analog Audio input ANL

Software bundles						
	SD	HD	MPEG2 4:2:0/4:2:2	H.264 4:2:0/8-bit	H.264 4:2:10bit	
DR5000-SD-420	z		z	z		
DR5000-HD-420	z	z	z	z		
DR5000-SD-422	z		z	z	z	
DR5000-HD-422	z	z	z	z	z	
z Included	Optional					

Software options	
DR5000I/CHD	Software license High Definition support License per channel
DR5000I/422	Software license 4:2:2 chrominance support License per channel
DR5000I/1632APSK	Software license DVB-S/S2 demodulation 16/32 APSK support. License per channel
DR5000I/1632APSK UHDLCK	Software license Specific synchronization mode on DR5000. License per channel
DR5000I/1080p50/60	Software license 1080p50/60 decoding support. License per channel
DR5000I/DD/DD+	Software license Dolby Digital (AC3) & Dolby Digital Plus (AC3+) Audio decoder support One license per track (up to 5.1)
DR5000I/CZIXI	Software license Open Internet One Stream Zixi Receiver support for D decoder Works only in pair with Kyrion CM5000

¹ Committed Roadmap item available via software upgrade

² Via cascading

³ Contact Factory for availability