

## Professional Full-HD HEVC IRD, Model Number: MCD-251FS



### Product Introduction

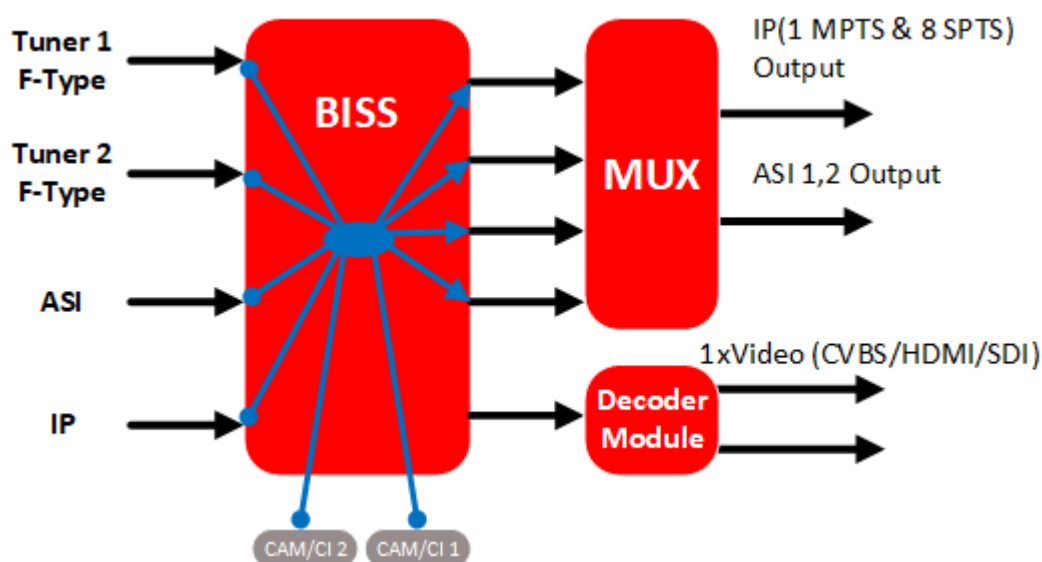
MCD-251FS is professional HD IRD which receives feeds via 2x RF inputs, 1x ASI inputs and 1xIP input and gives video/audio out through interfaces after demodulating, descrambling, re-multiplexing and decoding. The output of MCD-251FS support HDMI, CVBS, SDI, BNC, XLR interface and SPDIF.

The two CAMs/CIs accompanied and BISS modules can descramble the programs input from encrypted Tuner, ASI and IP. Its pluggable structure design greatly facilitates the change of modules (demodulator or decoder) as needed. MCD-251FS is also equipped with ASI and IP input for re-mux, and output with 2 ASI ports and IP port.



## Key Features

- Demodulator, descrambler, re-mux, decoder modules in one box
- 2xDVB-S/S2/S2X input
- 1xASI input
- 1xIP input for re-mux (UDP)
- Each CAM can decrypt multiple programs from Tuner/ASI/IP
- BISS descrambling (Up to 120Mbps)
- 4:2:0 HD/SD MPEG2, MPEG4/AVC/H.264, HEVC/ H.265
- Only 8 bits in HEVC
- MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC V2, Dolby Digital/Dolby Digital Plus decoding and AC3 pass-through
- Dual Stereo audio out (for SDI interface)
- IP (1 MPTS & 8 SPTS) output over UDP and RTP/RTSP; 2 ASI mirrored out
- Support CC (EIA608, EIA708) & Teletext (Only for SDI)
- Support maximum 128 PID mapping per input
- Pluggable and changeable design
- LCD and Keyboard and web GUI NMS management
- Updates via web



Application Block Diagram of MCD-251FS

**Specifications:**

<b>Input</b>	<ul style="list-style-type: none"> <li>• 2x F type</li> <li>• 1xASI (re-mux, BNC)</li> <li>• 1xIP input for re-mux (UDP)</li> </ul>
<b>Tuner Section</b>	<ul style="list-style-type: none"> <li>• <b>DVB-S</b> Input Frequency: 950~2150MHz Symbol rate: 0.5~45Msps Signal Strength: - 65- -25dBm FEC: 1/2, 2/3, 3/4, 5/6, 7/8 Constellation: QPSK Max input bitrate: ≤160 Mbps</li> <li>• <b>DVB-S2</b> Input Frequency: 950~2150MHz Symbol rate: QPSK/8PSK /16APSK :0.5~45 Msps 32APSK: 0.5~40Msps; FEC: QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10 Constellation: QPSK, 8PSK, 16APSK, 32APSK Max input bitrate: ≤160 Mbps</li> <li>• <b>DVB-S2X</b> Input Frequency: 950~2150MHz Symbol rate: QPSK/8PSK /16APSK :0.5~45 Msps 8APSK/32APSK: 0.5~40Msps FEC: QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20 ,8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 8APSK: 5/9-L, 26/45-L 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36 , 2/3-L, 25/36, 13/18, 7/9, 77/90 ,32APSK: 3/4, 4/5, 5/6, 8/9, 2/3-L, 32/45, 11/15, 7/9 Constellation: QPSK/8PSK/8APSK/16APSK/32APSK Max input bitrate: ≤160 Mbps</li> </ul>
<b>Descrambling</b>	<ul style="list-style-type: none"> <li>• CAM/CI Qty.2</li> <li>• BISS Mode: Mode 1, Mode E (up to 120Mbps)</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>• IP (1xMPTS &amp; 8xSPTS) out over UDP, RTP/RTSP. 100Base-T Ethernet interface (unicast / multicast)</li> <li>• 2xASI mirrored out, BNC interface</li> <li>• <b>Decode Output Video:</b> Interface: CVBS/HDMI/SDI Number of channels: 1 Decode: 4:2:0 MPEG-2 MPEG4 AVC/H.264 HEVC/ H.265 (8 bits) Resolution:1920×1080_60p, 1920×1080_60i, 1920×1080_50p; 1920×1080_50i; 1280×720_60P, 1280×720_50P; 480i, 576i</li> <li>• <b>Decode Output Audio:</b> Interface: HDMI, SDI, SPDIF, BNC, XLR, AES Number of channels: 1 or 2 for option Decode: MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC V2, Dolby Digital/ Dolby Digital Plus Audio Output Mode: Left, Right, Stereo Stereo audio (Applicable for SDI port only)</li> </ul>
<b>System</b>	<p>Local interface: LCD + control buttons Remote management: Web-server Management Upgrade: USB, web management Dimension: 482x300x44.5mm (W×L×H) weight: 3.5kg Environment: 0~45°C(work) ; -20~80°C (Storage) Power requirements: 100~240VAC, 50/60Hz Power consumption: 20W</p>