



**Atlas MRD 3187B
Modular Receiver Decoder**



Applications

Contribution Reception and Turn-Around

Receive network and live feeds via RF, ASI, or IP, and simultaneously demodulate, de-encapsulate, encapsulate, and/or decode to multiple formats of your choice for local processing and re-encode requirements.

Local Reception and Integration

Receive local content off-air or through fiber feeds and simultaneously provide compressed and decoded/downconverted outputs to feed your distribution network.

Backhaul and Interconnection

Easily convert transport streams from RF carriers, to serial transport streams, or to/from IP datagram's to seamless transfer content through your network.

Advanced Digital Queue Tone Support

Retain commercial ad avails through the re-encode chain by receiving the SCTE35 messages, converting them to SCTE104 messages, and embedding them in the VANC of the SDI output.

Atlas MRD 3187B Multi-Format SD/HD Modular Receiver Decoder

The Atlas Modular Receiver Decoder (MRD) is the industry's only professional multi-format modular receiver decoder available today. Installed by more broadcast, cable, satellite, and telco service providers, and across a wider range of applications than any other multi-format receiver decoder. The Atlas MRD sets the standard for performance, scalable functionality and cost of ownership. The award winning architecture of the Atlas MRD adapts to changes well beyond any integrated receiver decoder, allowing hardware and software features to be upgraded in the field (often while still in the rack).

The Atlas MRD supports innumerable applications by combining dual-channel processing capability with MPEG-2, MPEG-4, 4:2:0, 4:2:2, SD, and HD video decoding. With the wide range of interfaces, the Atlas MRD adapts to virtually any contribution, distribution, or backhaul environment while allowing easy upgrade paths to future technologies. All of this is what makes the Atlas MRD the only choice for operators seeking a truly future-proof solution. The Atlas MRD 3187B is the next-generation Modular Receiver Decoder from Sencore. The Atlas MRD 3187B expands the functionality of the award winning Atlas MRD 3187A by adding features such as DVB-CI and SCTE35/104 messaging support.

Key Features

Versatile Modular Platform

Avoid getting trapped by proprietary integrated solutions. Preserve capital investments by purchasing only the functions required today, and seamlessly scale to the functionality needed tomorrow.

Future-Proof Interface Upgrades

As new technologies emerge for next generation contribution links, the MRD's interface options and backplane routing architecture make the transitions simple and cost effective.

Wide Range of Inputs and Outputs

The Atlas MRD can support multiple inputs and outputs for seamless integration into a wide variety of system architectures.

Easy System Integration

The SNMP MIB is integrated with many of the industry's most popular automation and network equipment management and monitoring systems.

Multiple Channel Processing

The Atlas MRD supports up to two decoders. These decoders can be configured as two completely independent receiver decoder systems to decode two separate channels. Or, they can be configured to process the same channel twice, providing an HD and SD output simultaneously from an HD source.

Atlas MRD 3187B Modular Receiver Decoder



Atlas Modular Receiver Decoder Solutions

The Atlas Modular Receiver Decoder solutions provide operators a choice of I/O options you require today, and the flexibility to easily change in the future. The modular design of the Atlas MRD 3187B allows you to customize a compact, modular chassis with a variety of input and output modules, including: RF Input, Transport Stream I/O, video and audio decoding.

Multi-Standard Video Decoding Support

The Atlas MRD 3187B is capable of decoding all MPEG-2 and H.264 Transport Streams from Simple Profile through High Level, including 4:2:0 and 4:2:2. It also supports all ATSC formats. Analog options include: NTSC and RGB/YPbPr. Digital video options include SD/HD SDI. The MRD3187B adds DVB-CI and SCTE35/104 messaging support to Atlas MRD platform.

Multi-Standard Audio Decoding

The MRD 3187B lets you choose either digital or analog audio outputs in a variety of connector options. You also have the ability to decode MPEG Audio, Dolby AC-3, Dolby-E, AAC and HE-AAC Audio. Decoded audio can also be embedded in HD/SD SDI.

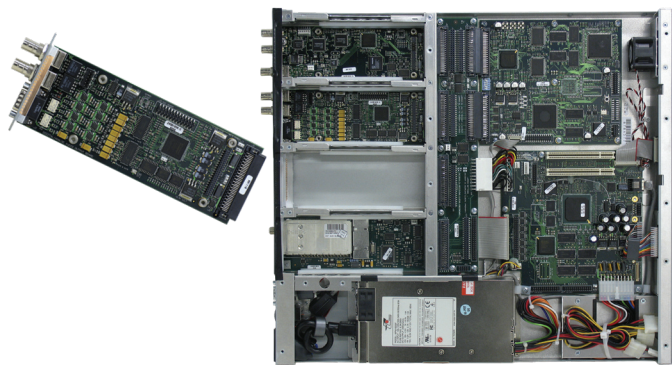
Not Just A Receiver Decoder

The MRD 3187B enables operators to gain valuable information about the decoded video and audio signal. The video and audio bitrate, aspect ratio, native format, and other useful information can be viewed to verify the quality of the decoded signal.

Selected PSIP data can be decoded and viewed, allowing quick verification of PSIP data presence, as well as verification of the content of each PSIP table.

Complete Remote Operation

In addition to providing a variety of input and output options, the MRD 3187B provides signal monitoring capabilities that can be accessed remotely through an easy-to-use SNMP protocol via an Ethernet or Serial port. MRDs can be reconfigured remotely through SNMP or the most intuitive web client in the industry.



Up to 6 Optional I/O Cards can be inserted into the unit

Atlas MRD 3187B Card Options

RF Input Card Options

ATSC Broadcast Input (8701A)

Single Input Port, 8-VSB and 64/256 QAM-B Demodulation

DVB-S/S2 Satellite Input (8710A)

Dual Input Ports, DVB-S QPSK Demodulation, DVB-S2 QPSK, 8PSK Demodulation

ASM Receiver Card (8711)

Dual Input Ports (Turbo PSK, DVB-S PSK)

DVB-T/COFDM Broadcast Input (8715)

Dual Input Ports, QPSK, 17/64 QAM Demodulation, 2K & 8K FFT Sizes

Serial Input/Output Card Options

ASI/SMPTE 310M Input and Output (8702)

Selectable ASI or S-310M Serial Format, Output from Internal TS Bus

IP Input/Output Card Options

10/100/1000 MPEG over IP Input/Output (8725)

Transmits and Receives Multiple Streams Simultaneously, Supports Pro-MPEG COP3 FEC, IGMPv2/v3, H RTP, and Null-Stripped VBR.

Dual MPEG over IP Input/ UDP Output (8727)

Transmits and Receives Multiple Streams Simultaneously Supports Pro-MPEG COP3 FEC, IGMPv2/v3, H RTP, and Null-Stripped VBR. Output is UDP transport protocol

Video/Audio Output Card Options

Component/Composite Video Output (8706A)

Component or Composite Video Outputs, Configurable Component/RGBHV Output

Discrete Analog and Digital Audio Outputs (8707A)

Simultaneous Analog and AES Audio Outputs, Supports Two Stereo Pair on both Analog and Digital Outputs

2 HD/SD-SDI, 1 Component/Composite Video Output (8708)

Simultaneous HD/SD-SDI and Component/Composite Outputs Two Mirrored HD/SD-SDI Output Connectors and one Configurable Component (RGBHV/YPbPr) or Composite Output

Decoder Card Options:

MPEG-2/MPEG-4 4:2:0 SD/HD Decoder (8732)

Single Video Program Decoder MPEG-2/MPEG-4 Auto Sensing, Two Audio Services Supported Decoding/Downmix/Pass-through for Multiple Audio Compression Types

MPEG-2 4:2:0 SD/HD Decoder (8730A)

MPEG-2 only version of 8732 decoder

MPEG-2/MPEG-4 4:2:0 SD/HD Genlock Decoder (8734)

Single Video Program Decoder MPEG-2/MPEG-4 Auto Sensing, Two Audio Services Supported Decoding/Downmix/Pass-through for Multiple Audio Compression Types, Genlock Support from Black-and-Burst or Tri-Level References

MPEG-2 4:2:0 SD/HD Genlock Decoder (8731A)

MPEG-2 only version of the 8734 decoder

MPEG-2 4:2:2 SD/HD Genlock Decoder (8733)

Simultaneous HD and Down-converted SD Outputs from an HD Source, Single Video Program Decode, Four Audio Services Supported Decoding/Downmix/Pass-through for Multiple Audio Compression Types, Genlock Support from Black-and-Burst or Tri-Level References

Decryption Card Options:

DVB Common Interface and BISS Decryption Option (8721)

Dual DVB-CI CAM Slots, Multiple Program Decryption Support, Support for All Major CAMs and Encryption Systems, BISS 1 & E Decryption Support

General Purpose Card Options

GPIO Module Card. (8713)