

MMX-1801

HD/SD Metadata embedder



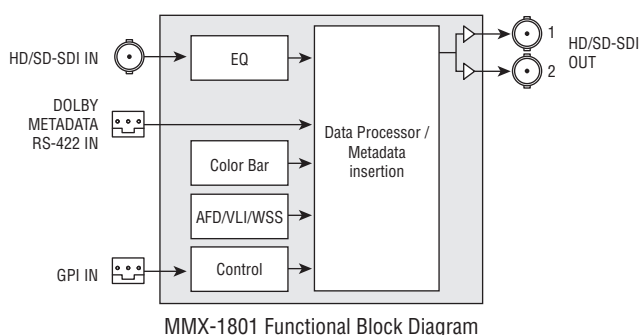
The MMX-1801 is a high-quality interface which can detect, pass, or insert AFD (Active Format Description) into HD and SD signals.

A unique feature is its ability to embed Dolby Metadata and two GPI status signals into the video signal. The card also serves as a VLI and WSS inserter for SD signals.

The MMX-1801 has a built-in color bar test generator.

KEY FEATURES AND BENEFITS

- Active Format Description (AFD) insertion for both HD and SD signals
- VLI inserter for SD signals in addition to WSS for 625 signals
- Dolby Metadata insertion as VANC data through the use of the RS-422 port
- Sampling of two GPI inputs for embedding as VANC or HANC data or recall user presets
- HD/SD-SDI input with automatic equalization
- Automatic detection of video input format
- Automatic detection of input video loss
- Dolby E compatible
- Built-in color bar generator



MMX-1801 Functional Block Diagram



MMX-1801-SRP

TECHNICAL SPECIFICATIONS

VIDEO HD/SD-SDI INPUT

Signal: HD: SMPTE 292M (1.485, 1.485/1.001 Gbps)
SD: SMPTE 259M-C (270 Mbps)
Cable length: HD: up to 110 m (350') of Belden 1694A
SD: up to 250 m
Return loss: >15 dB up to 1.5 GHz

ACTIVE FORMAT DESCRIPTORS

AFD data: User selectable as per SMPTE 2016-1
AFD embedding: as per SMPTE 2016-3
VLI: as per RP-186
WSS: as per ETSI EN300294

DOLBY METADATA

Signal: RS-422 as per SMPTE RDD-6
Embedding: as per SMPTE RP-2020-2
Rate: 115,000 Bd

VIDEO HD/SD-SDI OUTPUT

Signal: HD: SMPTE 292M (1.485, 1.485/1.001 Gbps)
SD: SMPTE 259M-C (270 Mbps)
Return loss: >12 dB, 5 MHz to 1.5 GHz
Jitter: <0.2 UI p-p

GENERAL PURPOSE INTERFACE (GPI) INPUT

Signal (2): Contact closure (opto-isolated), common ground

Level: True = 0 to 0.8 V (max.)
Maximum input voltage = ± 5.5 V
Rate: DC to 250 Hz
VANC/HANC embedding: Miranda's proprietary, VANC or HANC selectable

PROCESSING PERFORMANCE

Signal path: 10-bit video
Video delay: 11.2 μ s
Test signal: HD or SD Video - 75 % Color Bars

ELECTRICAL

Power: 4 W



ORDERING INFORMATION

Densité 2 frame

MMX-1801 HD/SD Metadata embedder
MMX-1801-SRP Single rear connector panel

Densité 3 frame

MMX-1801-3RU HD/SD Metadata embedder (including 3RU adaptor)
MMX-1801-SRP-3RU Single rear connector panel (including 3RU adaptor)

Remote control

iControl, iControl Solo, RCP-200 *

* For full list of supported cards, visit <http://www.miranda.com/RCP-200>