

5782DEC-H264HD-10GE2

Professional H.264 and MPEG-2 Decoder



The 5782DEC-H264HD-10GE2 is a professional high quality *3G/HD/SD-SDI H.264/MPEG-2 decoder platform. It offers high-end decoding support for both MPEG-2 and H.264/AVC optionally up to 4:2:2 10-bit and offers direct uncompressed over IP output.

The 5782DEC-H264HD-10GE2 is perfect for monitoring applications or decoding for downstream baseband and IP SMPTE ST 2022-6 or ST 2110* video and audio processing. 5782DEC-H264HD-10GE2 can reconstruct in the most flexible way all VANC and HANC data in the baseband and uncompressed IP outputs.

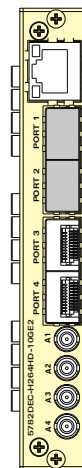
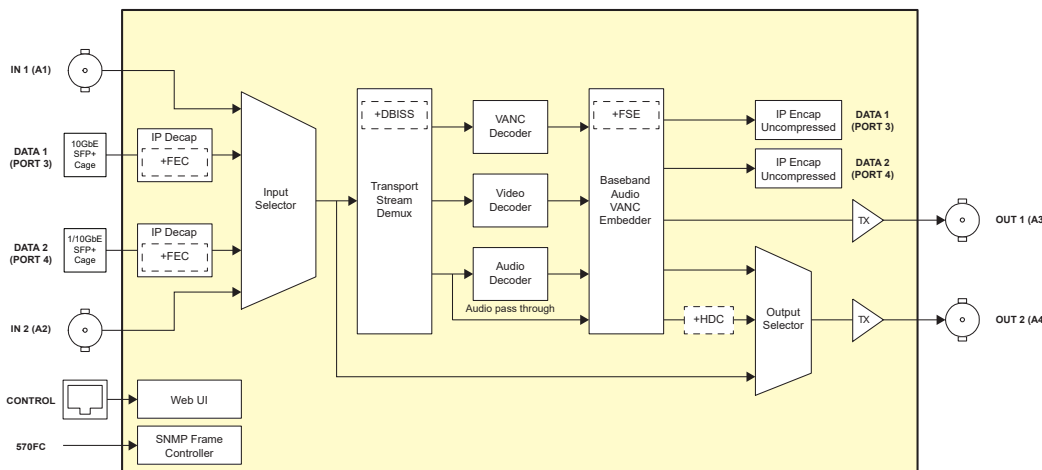
The 5782DEC-H264HD-10GE2 can be licensed to support a variety of features. All licenses can easily be factory- or field-upgraded for flexible support.

* Options Available

H.264/MPEG-2 mode			J2K mode
+FEC	+AAC	+FSE	+FEC
+8B422	+DD	+DBISS	
+10B422	+SCTE104	+HDC	

Features & Benefits

- 1x H.264/MPEG-2 video decoder up to 4:2:2 10-bit or 1x JPEG2000 video decoder up to 4:2:2 10-bit
- 2x ASI and IP inputs
- 2x *3G/HD/SD-SDI outputs
- SMPTE ST 2022-6 or ST 2110 uncompressed IP outputs with 10GbE SFP
- Baseband outputs with embedded audio and ancillary data
- Frame Sync reference optional via frame distribution (+FSE)
- Fully integrated with the industry-leading VistaLINK® PRO system



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Specifications

Video Specifications:

Number of Inputs/Outputs:

BNC: 2x *3G/HD/SD-SDI inputs,

2x ASI inputs

IP: 2x data ports

(SFP optional)

Standards: SMPTE ST 424M (3GB/s),
ST 292M (1.485GB/s),
ST 259M (270MB/s),
ASI per DVB TR 101 891
(max. 213Mb/s)

Max. Program BR:

H.264/MPEG-2: 80Mb/s

J2K: 300Mb/s

PIDs per Program: 50 max.

Programs per TS: 50 max.

Video Resolution: 1920x1080 @
25, 29.97, *59.94Hz;
1280x720 @ 50, 59.94Hz;
720x576 @ 25Hz
(ITU-R BT.656-4);
720x480 @ 29.97Hz
(SMPTE ST 125M)

Ethernet Connector:

RJ-45 SFP
auto-negotiation,
10GbE SFP SMPTE
ST 2022-6, *ST 2110,
FEC input SMPTE
ST 2022-1 (optional),
ST 2022-7 support
(with the use of 2x SFP),
SPTS/MPTS, UDP/RTSP

Video Decompression:

H.264/MPEG-2 4:2:0;
H.264/MPEG-2 4:2:2
8-bit (optional);
H.264 4:2:2 10-bit
(optional)

Profile/Level:

MP@ML up to
H1422P@4.1

Audio Specifications:

Number of Channels:

8x PIDs of audio
processing across
16x channels of
embedded PCM

Formats:

H.264/MPEG-2: MPEG-1 Layer 2, Dolby®
Digital AC3 up to 3/2L;
Pass-through: PCM,
Dolby® Digital, Dolby® E;
Optional: Dolby® E encode,
AAC-LC

J2K:

PCM

Ancillary Specifications:

Embedding Of:

Audio pass-through,
closed caption/Teletext,
AFD/WSS, Timecode,
SCTE 35 to 104 (optional)

High Quality Down Convert (+HDC):

Down Conversion: SMPTE ST 292 to ST 259

Aspect Ratio: Fixed Scalar or follow AFD

Configuration & Management:

Web: Direct RJ-45 or

FC proxy mode

SNMP: VistaLINK® PRO remote

control and monitoring
via frame controller

Ordering Information

5782DEC-H264HD-10GE2

3G/HD/SD H.264/MPEG-2 Single Channel Decoder with IP input/output

Ordering Options:

+8B422

Single 8-Bit 4:2:2

+10B422

10-Bit 4:2:2 Decoding Option

+AAC

Advanced audio coding

+DD

Dolby® E/AC3 Decoder

+SCTE104

Option for enabling SCTE104 outputs on each available SDI/HDSDI outputs. SCTE35 triggers on

ASI inputs are transferred into SCTE104 message on VANC of SDI/HDSDI outputs of the decoders.

+DBISS

Decryption of BISS and BISSE for multiple products. Support BISS and BISSE for

2 incoming streams.

+FEC

Enables FEC per SMPTE 2022 at IP inputs

+FSE

Frame Sync option. Provides genlock with external reference

+HDC

High Quality Downconverter Option

+3G

3G functionality (Cannot be ordered with the +FEC, +DBISS, or +HDC)

+J2KD

JPEG2000 decoder

570FC

VistaLINK® frame controller for 570FR

VistaLINK® PRO

VistaLINK® PRO SNMP Alarm Monitoring, Email Notification and Module Configuration

Application Software (1 year License Included for 1 client workstation)

VistaLINK® CSM

Baseline VistaLINK® Pro Compression Service Manager for Compression Head Ends

SFP Interface Options:

SFPTR-RJ45-SGM-AV

10/100/1000Mbps RJ45 SFP module with SGMII interface

SFP10G-TR13-A

SFP+ Optical Transceiver, 10Gbs, 1310nm DFB, SMF, 10Km

Enclosures:

570FR

Compact High Density Distribution Frame, includes main power supply

S570FR

Standalone frame for the 570IPG series, includes power supply

* Contact the factory for more information.

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Specifications (continued)

Electrical:

Input Voltage: Auto-ranging,
100–240V AC

Power: < 48W

Physical (Number of Slots):

570FR: 1

S570FR: 1

Safety & Compliance:

Supported Media Standards:

AMWA NMOS IS-04 v1.3,
IS-05 v1.1, IS-07 v1.0,
IS-08 v1.0, IS-09 v1.0,
BCP-002-01 v1.0 and
BCP-003-01 v1.0

EMI/RFI:

Complies with FCC
regulations for Class A
devices; complies with
EU EMC directives