DEC-300-HDSDI



H.264 & MPEG-2 HD/SD DECODING BLADE AND PORTABLE DEVICE

The DEC-300 is a professional compact H.264 SD/HD and MPEG-2 SD/HD video/audio stream receiver and IPTV decoder. It is designed for network IP video system integration. As an output decoder device for streaming media it provides easy access to DVB IP and IPTV streams on HD-SDI and analog video outputs.

Unique features and benefits:

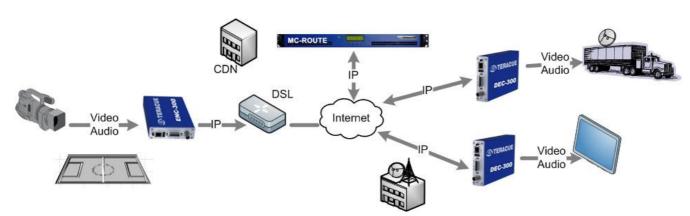
- Robust hardware solution for 24/7 operation
 Broadcast & CDN IP contribution
- Real-time hardware HD/SD device
- H.264 and MPEG-2 HD/SD decoder
- Forward error correction Pro-MPEG FEC
- Low delay support
- Talkback for audio conferencing
- Export & import of presets
- UDP & TCP (error correction) streaming
- Low power consumption
- Extended temperature range
- Management by web interface

Applications:

- · Wireless & mobile streaming
- Digital signage streaming
- IPTV/OTT streaming
- Medical & campus TV
- Telemedicine
- Security monitoring
- Stadium & event TV
- Training & research
- Video monitoring
- · Control rooms & command centres



Application example: Contribution over DSL with multible destinations

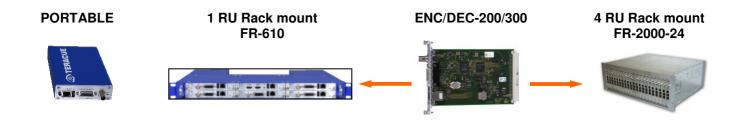


Professional quality and easy configuration

DEC-300 decoders incorporate low-latency compression technology and professional signal processing, creating full resolution video output in HD resolution. To access the intuitive graphical user interface use your standard web browser from any PC on the network. Remote network configuration is also supported over SNMP, by Telnet and by control over the local COM port.

Portable and blade based operation

Multiple DEC-300 blades are operated inside the FR frame series. The decoder is also available in the compact PORTABLE device. High-density requirements are solved by operating the DEC blades in the FR-2000-24 (4 RU rack mount) or FR-610 (1 RU rack mount) multi-channel racks. Different types of DEC decoder blades, ENC encoder blades and DVB/IP videogateways can be "mixed and matched" inside the FR-frame series.



DEC-300-HDSDI



DECODING SPECIFICATIONS

Standards PAL, NTSC, 720p 50/60, 1080i 50/60, 1080p 25/30

 $\label{eq:holosupport} \mbox{Video output: 0,8 V_{PP}, 75 Ohm (BNC , embedded audio support)}$

Breakout cable outputs: Composite, S-Video, Component

Video resolutions Full D1: 720h x 480/576v, Half-D1: 352h x 480/576v, CIF/SIF: 360/384h x 288/240v, QCIF: 176h x 144/120v

720p 50/60, 1080i 50/60, 1080p 25/30

Audio outputs

Unbalanced analog stereo, consumer line level

Audio inputs (Talkback)

Analog stereo, consumer line— and MIC-level

Video codecs MPEG-2 (ISO/IEC 13818-2), Main Profile at Main Level (MP@ML), 4:2:0

High Profile at Main Level (HP@ML), 4:2:0

MPEG-4 AVC/H.264 (ISO/IEC 14496-10), Main Profile at Level 3.1 (MP@L3), Baseline Profile at Level 3.1 (BP@L3), 4:2.0, High Profile at Level 4 (HP@L4)

Stream types ISO/IEC 13818-1 Transport Streams

Elementary A/V

Audio codecs MPEG-1 Audio Layer 1, 2 (ISO/IEC 11172-3 Layer 1, 2)

MPEG-4 AAC LC (ISO/IEC 14496-3)

I/O SPECIFICATIONS

Network 10/100TX Ethernet, RJ45, half/full duplex, auto-sensing Streaming traffic Unicast and multicast traffic supported, TCP, RTP

IP Protocols HTTP (web browser), TCP/IP control protocol, UDP/TCP streaming, IGMPv2, SNMP, DHCP

Error correction: Pro-MPEG FEC (forward error correction) and TCP

RS-232/422 port RS-232 connection via console (remote control for non IP devices via TCP/IP RS-232/422 command tunnelling)

GPI in 1 INPUT, isolated GPI out 1 OUTPUT, isolated USB port (For future use)

MANAGEMENT: Web browser, SNMP, Telnet and RS-232, software updates via web browse

Fault measurement with log generation, authorization via user password, RTC (Real Time Clock) support

ENVIRONMENTAL

Agency approvals

CE, RoHS compliant

Humidity

Up to 90%, non-condensing

Temperature -25 to +45 ℃ environment temperature; fanless when operated as -PORTABLE

Blade weight Approx. 130 grams

Blade dimensions (H/W/D) 20mm x 130mm x 190mm, Europe Card (160mm x 100mm, 3HE), Conform to IEC60297-3/-4

Power 5Vdc ±10% / 8W per blade

PORTABLE weight Approx. 700 grams

PORTABLE dimensions (H/W/D) 28mm x 104mm x 192mm

Limited warranty 1 year standard limited warranty. Warranty extensions for up to 5 years available.

ORDER INFORMATION

DEC-300 H.264 HD & MPEG-2 HD decoder blade with HD-SDI-, embedded audio-, analog video/audio output.

DEC-300-PORTABLEH.264 HD & MPEG-2 HD portable decoder device with HD-SDI-, embedded audio-, analog video/audio output.

Including power supply.

300-UPG-FEC Upgrade option for ENC-/DEC-300-Series for forward error correction

BREAKOUT-CABLE-S-D YC (miniDIN), Composite (RCA jack), analog audio out (RCA jack), analog audio in (3.5 mm phone jack) connectors

incl. RCA jack to 3.5 mm phone plug adapter. Breakout cable S is included in delivery

BREAKOUT-CABLE-P-3D Composite/YC/YP_BP_R (all BNC female), analog audio out/in (RCA jack), GPI in/out (Sub-D 9-pin), RS-232/422 (Sub-D 9-pin), RS-

D 9-pin) connectors

FR-610 1RU Rack mount chassis for max. 6 blades

FR-610-DPS 1RU Rack mount chassis for max. 6 blades with redundant power supply

FR-2000-24 4RU Rack mount chassis for up to 21 blades (depends on blade combination) with redundant power supply

COMPLEMENTARY PRODUCTS

ENC-300-DVI H.264 HD/SD encoder blade with DVI/HDMI input. Also available as -PORTABLE encoder device.

ENC-300-HDSDI H.264 HD/SD encoder blade with SDI, PAL/NTSC, Composite, S-Video, Component or analog VGA input. Also

available as -PORTABLE encoder device.

MC-ROUTE-1RU 1RU appliance for live UDP, TCP, FEC, RTSP and HLS streaming and unicast/multicast bridging

***PLEASE NOTE: Live streaming/multicast streaming requires specially designed and configured networks.

Minimum requirements include: Layer-3 switched ethernet, multicast enabled, IGMPv2/3, network and multicast routing supported.



