

- Up to 4 transcoding channels, HD and SD support
- MPEG-2 to H.264, H.264 to MPEG-2
- Resolution resizing, bitrate reduction
- UDP/RTP (unicast/multicast), RTMP, HLS streaming
- IP and ASI inputs/outputs
- MPTS/SPTS multiplexing/demultiplexing



Made in the USA

Business Benefits

Cost Effective

With its modular and scalable architecture, the NOVUS-MT provides rich audio / video transcode support with unmatched CAPEX / OPEX advantages.

Future Proof

With real time 'any-to-any' multistandard codec support, the transcoder adapts services from both MPEG-2 and MPEG-4 AVC systems.

Flexible Networking

The transcoder supports a rich set of standard video networking protocols including UDP, RTP, RTMP and HTTP Live Streaming (HLS), permitting reliable video delivery over any IP network.

NOVUS-MT direct processing technology delivers enhanced IP network jitter and latency performance.

High Density

The NOVUS-MT transcoder can support up to 4 transcoding channels simultaneously. The NOVUS-MT can be used standalone or combined in a 1RU rack-mount tray (up to 3 NOVUS-MT for tray), providing 12 transcoding channels simultaneously.

Control & Monitoring

The DashBoard™ Network Control & Monitoring software is used for remote control, monitoring and software update

The NOVUS-MT is a powerful and flexible real time transcoding solution supporting MPEG-2 and MPEG-4 AVC video codecs and a wide variety of audio codecs. It is ideally suited for any content repurposing, edge transcoding, or video distribution network bandwidth optimization application. NOVUS-MT has been designed to meet the demanding requirements of the IPTV, professional broadcast, enterprise video delivery, and streaming video markets.

The scalable and cost effective modular design is capable of simultaneously transcoding up to four High Definition or Standard Definition video services. If desired, up to three units (12 transcoding channels) can be installed in a 1RU rack mount tray. Using NOVUS-MT's unique transcoding architecture, operators can transcode multiple HD and SD services in a compact modular unit.

NOVUS-MT multistandard broadcast transcoder is equipped with the latest advances in video compression technology to deliver excellent video quality at low bitrates. State of the art video processing combined with unique encoding technology enables new open system architectures to be created. Simultaneous support of DVB-ASI, broadcast video over IP, RTMP and HTTP Live Streaming allows content to be freely distributed over virtually any video network.

Key Features

- Multi-Standard transcoder (MPEG-2 and H.264), with support for both SD and HD content.
- Up to 4 simultaneous transcoding channels: MPEG-2 to H.264; H.264 to MPEG-2; HD and SD support.
- Resolution resizing, bitrate reduction.
- Audio pass-through support.
- Audio transcoding support: MPEG-1 Layer II, AAC-LC and Dolby AC-3 inputs; MPEG-1 Layer II and AAC-LC outputs.
- 2 ASI input ports and 2 ASI output ports. All ports support the full ASI line rate of 213 Mb/s.
- 2 Ethernet ports with 100/1000 Mb/s support.
- UDP/RTP (unicast/multicast) support for Ethernet transmission/reception.
- UDP/RTP (unicast/multicast), RTMP, HLS support for Ethernet transmission.
- Internal program replication - individual programs can be routed to multiple outputs.
- Internal MPTS (Multi-Program Transport Stream) multiplexing and demultiplexing.
- (P)SI parsing and generation; ATSC table parsing.
- MPTS to SPTS Splitting support.
- Separate Ethernet ports for streaming and control.

ORDERING INFORMATION

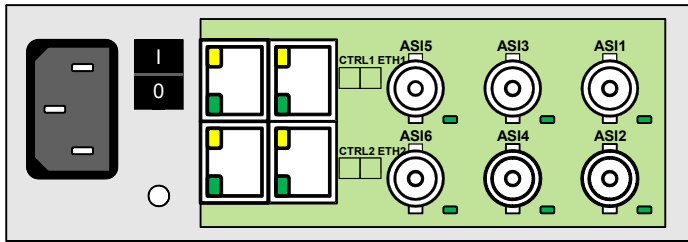
NOVUS-MT-2 - MPEG-2/H.264 transcoder with 2 transcoding channels

NOVUS-MT-4 - MPEG-2/H.264 transcoder with 4 transcoding channels

Available Options

OPT-Dolby - transcode Dolby audio to MPEG-1 Layer II or AAC-LC

Rear panel:



Rack mount 1RU Tray:



**Holds up to 3 NOVUS units
(up to 12 transcoding channels)**

Inputs and Outputs	<p>2x 100/1000Base-T RJ-45 ports, auto-negotiate or fixed speed</p> <p>2x DVB-ASI input ports, BNC 75 ohm</p> <p>2x DVB-ASI output ports, BNC 75 ohm</p> <p>213 Mbit/s maximum ASI TS bit-rate per port</p>	Video Transcoding	<p>Input</p> <p>MPEG-4 AVC HP@L4.0, HP@L4.2 (HD)</p> <p>MPEG-4 AVC MP@L3.0 (SD)</p> <p>MPEG-2 HP@HL (HD)</p> <p>MPEG-2 MP@ML (SD)</p> <p>Output</p> <p>MPEG-4 AVC HP@L4.0, HP@L4.2 (HD)</p> <p>MPEG-4 AVC MP@L3.0 (SD)</p> <p>MPEG-2 HP@HL (HD)</p> <p>MPEG-2 MP@ML (SD)</p> <p>CBR & VBR</p>	Management	<p>10/100/1000Base-T Ethernet (RJ-45)</p> <p>Configuration import/export</p> <p>Visual fault indicator</p> <p>SNMP v1,v2</p> <p>Datasafe™ automated card configuration</p>
Network Transport Protocols	<p>UDP/IP (Unicast and Multicast)</p> <p>RTP/IP (Unicast and Multicast)</p> <p>RTMP (Flash)</p> <p>HTTP Live Streaming (HLS): populates an external web server through FTP or SFTP</p> <p>Automatically generates web pages with a video window for all supported modes (VLC plug in required)</p>	Video Formats	<p>Input</p> <p>1080 x 1920p 60/50</p> <p>1080 x 1920/1440i 25 29.97/30</p> <p>720 x 1280/960 50/59.94</p> <p>960 x 540 25/29.97</p> <p>480 x 720/704/640/528 29.97</p> <p>576 x 720/704/640/528 25</p> <p>640x480, 480x270, 320x240, 320x180</p> <p>Output</p> <p>1080 x 1920p 60/50</p> <p>1080 x 1920/1440i 25 29.97/30</p> <p>720 x 1280/960 50/59.94</p> <p>960 x 540 25/29.97</p> <p>480 x 720/704/640/528 29.97</p> <p>576 x 720/704/640/528 25</p> <p>640x480/360, 480x270, 320x240, 320x180</p> <p>29.97, 25, 15, 12.5, 7.5, 6.25 frames/second</p>	Physical	<p>Dimensions:</p> <p>(W x D x H) 146 x 356 x 44mm</p> <p>Desktop or 1RU rack mountable tray available—3 modules per tray</p> <p>Power:</p> <p>16 Watts total power consumption</p> <p>AC input 100-240 VAC 47-63Hz</p>
Transcode Modes	<p>Multi-codec capable</p> <p>MPEG-2 to MPEG-4 AVC (H.264)</p> <p>MPEG-4 AVC (H.264) to MPEG-2</p> <p>MPEG-2 to MPEG-2 and MPEG-4 (H.264) to MPEG-4 (H.264) :</p> <ul style="list-style-type: none"> - re-encode - format conversion - bit rate reduction <p>UDP/RTP to RTMP, HLS</p>	Audio Transcoding	<p>Input</p> <p>MPEG-1 layer II stereo</p> <p>MPEG-4 AAC-LC stereo and 5.1</p> <p>MPEG-4 HE-AAC 5.1</p> <p>Dolby AC-3 stereo, 5.1, 7.1</p> <p>Output</p> <p>MPEG-1 layer II</p> <p>MPEG-4 AAC-LC</p> <p>Pass through</p> <p>Conversion</p>	Environmental	<p>Operating Temperature:</p> <p>0°C to 50°C (32°F to 122°F)</p> <p>Operating Humidity:</p> <p>5% to 95% (non-condensing)</p>
Video Processing	<p>Integrated down conversion</p> <ul style="list-style-type: none"> - HD to SD - Sub-SD resolutions <p>Adaptive deinterlacer</p> <p>Frame rate reduction</p> <p>AFD handling</p> <p>Closed captions and VBI pass-through</p>	Compliance	<p>CE: CE marked in accordance with 93/68/EEC (22/07/03) Directive</p> <p>UL: UL approval</p> <p>US FCC: Part 15</p> <p>EMC: EN55022, EN55024, EN6100 -3-2</p>		

Note: NOVUS-MT specifications are subject to change.