

# MediaStar MultiStream Transcoder (700-482)



The MediaStar 700-482 MultiStream Transcoder unit receives incoming IP streams and provides video and audio format transcoding, stream rate regulation and downscaling across multiple live IPTV streams to enable their controlled re-transmission on to an IP network

The transcoder acts as a reliable and secure interface between disparate incoming IP streams, often derived from multiple sources and with differing transmission standards. The units modify them, apply system controls and then re-stream them onto your network to conform to a predetermined corporate network policy or specific site specification.

Stream parameters which can be controlled and modified include re-encoding the incoming video and audio streams to H264 or H265 HEVC standards and engaging stream bit rate regulation to set both a target and maximum permitted network bandwidth to any outgoing stream, thus assuring data rate limiting on bandwidth critical networks.

Additionally, individual stream video image resolutions can be downscaled from 4K to 480p to suit display requirements and if in an interlaced format, converted to progressive scan. Outgoing streams can also be converted from Multicast to Unicast format and vice versa to suit ongoing re-transmission requirements.

## Key Features for

- Transcodes multiple live MPEG2, H264 and HEVC IPTV streams to H264 or H265
- Enables Bitrate reduction per stream for data rate limiting on critical networks
- Allows dynamic downscaling of picture resolutions and frame rates from 4K to 480p
- Can convert from interlaced scan to progressive scan per stream
- Can convert Multicast streams to Unicast and vice versa
- Management with Web GUI or MediaStar MediaManager software
- Compact stand-alone appliance in BTX chassis format

Simultaneous transcode capacity per unit is typically between 4 to 6 channels dependent upon outgoing video encoding formats and bit rates selected (See specifications). The units are typically deployed with MediaStar LAN-Casters, where the source bandwidth and format is determined by the broadcaster and are particularly effective in reducing the bandwidth of DVB and ATSC transmissions as well as converting MPEG2 to the more efficient H264 / HEVC formats.

The management and initial configuration of the unit and each transcoder channel is easily performed via the built-in web server with its intuitive UI. Alternatively, multiple units within a system can be networked under the control of the MediaStar Media Manager software (Part 462), making the 700-482 transcoders ideally suited for both large scale distributed applications or simple single unit deployments.

Model options: 700-482

861311903

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## Specifications

### SYSTEM INPUTS & OUTPUTS

#### STREAM INPUT FORMATS

MPEG-2 Transport Stream (TS) transmitted as a UDP V2/V3 IGMP Multicast or Unicast network stream  
MPEG2, H264, HEVC video formats SD to 4K resolutions  
MPEG1 part II, AAC, Dolby audio formats

#### OUTPUT ENCODING AND RESOLUTIONS

Simultaneous transcode maximum 4 to 6 channels, subject to outgoing video encoding format (4 channels 1080p30 H264 or 6 channels H264 480p30 typical)  
MPEG-2 Transport Stream (TS) transmitted as a UDP V2/V3 IGMP Multicast or Unicast network stream  
H264 video encoding, 480p to 1080p60 resolution  
H265 HEVC video encoding, 480p to 4K resolution  
AAC Audio encoding 32 - 384 Kbps, Dolby digital data pass-through  
VBR encoding (500 Kbps to 25 Mbps) with maximum bit rate control per channel

### LAN AND PLATFORM

#### LAN

Single 100/1000 Base-T 802.3 Auto MDIX LAN Interface  
DHCP or Static IP addressing

#### PLATFORM 700-482

Linux OS, LTS Kernel  
Intel i5  
2 x USB 2 Ports. 4 x USB 3 Ports  
4GB RAM, 128GB SSD hard drive  
Power: 65W, 110 - 240VAC Adaptor  
Temperature: 0 - 40 C, Non-condensing  
Weight 1.7Kg  
Dimensions: 36 x 183 x 183mm BTX appliance chassis  
Approvals: UL, CE, FCC

### SYSTEM MANAGEMENT

Web page interface for easy system configuration  
Can operate stand-alone or integrated with Media Manager system Administration software  
SNMP Traps for alert conditions (incoming stream errors or stream not present)

#### Whats in the box;

700-482 TRANSCODER APPLIANCE UNIT WITH PRE-INSTALLED  
TRANSCODER SOFTWARE; QUICK START GUIDE;  
EXTERNAL AC TO DC PSU MODULE; AC POWER CORD

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