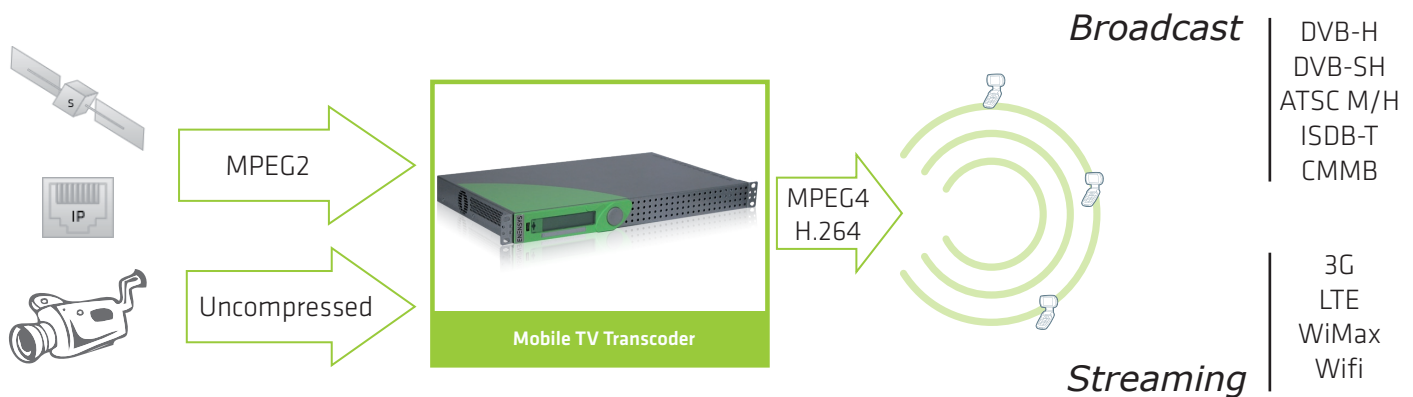


# TransCaster

Mobile TV TransCoder



**ENENSYS' transcoding solution, TransCaster, is the unique solution to convert any video and audio sources into high quality Mobile TV stream.**

**Transcaster** is ENENSYS' solution to deliver clear-to-air and/or encrypted video and audio content to Mobile TV handsets through a broadcast or a streaming network.

**TransCaster** is the world's first product to combine all-in-one box a professional IRD and an encoder for an immediate and straight delivery of video satellite sources : no need of an external IRD, nor SDI matrix. The **TransCaster** helps operators' operating their infrastructure while reducing their CAPEX.

The **TransCaster** supports natively **MPEG-4 AVC/H.264** video encoding and **AAC-HE** audio encoding at broadcast quality. This compact unit integrates state-of-the-art encoding and preprocessing cores to provide the best user experience.

Based on a robust and scalable hardware solution, the **TransCaster** provides out-of-the-box well proven interoperability with market leading handsets and also CAS vendors for offering pay TV services.

## Applications

- Mobile TV and radio broadcasting
- Mobile TV and radio streaming
- Brings any existing TV contents to Mobile

## Benefits

- Maximized video quality for Mobile TV
- Integrated IRD +encoder in 1RU
- Eased administration and redundancy

## Characteristics

- HD Mobile TV encoding
  - MPEG4/H.264 video encoding
  - AAC HE, AAC HEv2 audio encoding
- Compatible with any Mobile TV standards
  - Broadcast: DVB-H, DVB-SH, ATSC M/H, ...
  - Streaming: 3GPP, LTE, WiMAX, WIFI, ...
- **Statistical Multiplexing** for Broadcast
  - Distributed framework
  - Double-pass live look-ahead encoding
- **Conditional Access System** integration
  - Validated with major CAS vendors
- 4x Gigabit Ethernet ports
- Full SNMP support
- Remote HTTP control and real time monitoring

# TransCaster

## Mobile TV TransCoder

### Input

IP	MPEG2 TS over IP SPTS and MPTS PID/Program filtering
RF	Satellite (DVB-S/S2 - QPSK) DVB-CI interface (option)
Media (IP and RF)	MPEG-2 TS (ISO/IEC 13818-1) MPEG-2 MP@ML (SD) MPEG-1 Layer I, II AC-3 Audio (option)
Uncompressed A/V	Digital: SD-SDI (Serial Data Interface) SDI embedded and Balanced XLR AES Audio Analog: Component/composite/S-Video Balanced XLR Analog audio

### Processing

*Broadcast quality encoding engines*

Video	H.264 / MPEG-4 AVC ISO/IEC 14496-10 Baseline Profile at any levels Any mobile resolutions (CIF, QVGA, QCIF, ...) Any bit rate (up to 1 Mb/s) Any frame rate (up to 30 fps)
Video filtering	Optimized for SD to Mobile conversion Smart rescaling and cropping, with smart aspect ratio handling Preprocessing filters
Audio	AAC-HE - ISO/IEC 14496-3 User configurable from 8 to 96 kb/s
Statistical Multiplexing (option)	New generation distributed architecture Double pass look-ahead H.264 encoding Dynamic configuration capable
Scrambling (option)	DVB-Simulcrypt (1.4 and 1.5) interface DVB-OSF and OMA-DRM/SCP support

### Output

RTP transport	Clear-to-air and/or Encrypted Unicast or Multicast IPv4 and IPv6 ready SDP generation
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### Management and control

HTTP interface	Intuitive and easy configuration with modern web interface
SNMP	Full SNMPv2 support for NMS supervision
LCD	Easy equipment setup and monitoring
Upgrade	Flexible firmware upgrade mechanism

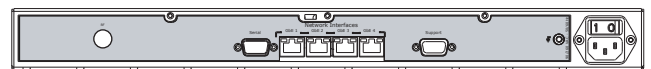
### Environment

Operating temperature	0 to 50°C / 0 to 122 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing

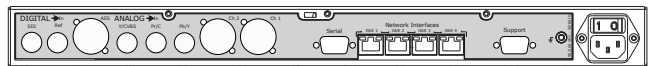
### Physical

Dimensions	43 x 440 x 274 mm 1.7 x 17.4 x 10.79 in.
Weight	3.4 kg
Format	1 RU x 19"
Power supply	100-240VAC
Power consumption	100W

TransCaster DVB-S model



TransCaster SDI model



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