

FM DVB Transcoder

Q565-FM can receive up to 8 FM radio channels and convert them to a DVB-compatible MPEG-2 transport stream. Output can either be IP or DVB-ASI. The device can be used to make locally received FM radio programs available to the digital infrastructure of cable network operators.

Due to its DSP-based hardware, Q565-FM is compact (19" 1U housing) and highly energy-efficient (< 3W per stereo channel). Several ordering options are available to adapt the configuration to the customer's requirements in a flexible way.

Specifications

FM Receiver:

FM channels: 4 / 8
Antenna input: One per channel
Input connector: F
Input frequency: 87.5 .. 108 MHz
Input sensitivity: 30 .. 100 dBμV

Audio Encoding:

Algorithms:

ISO/IEC 11172-3, 13818-3 MPEG-1/2 Layer II
ISO/IEC 13818-7 MPEG-2 AAC
ISO/IEC 14496-3 MPEG-4 AAC LC, HE-AAC,
HE-AAC V2

Bitrate:

All allowed bitrates as defined in the respective standards

Sampling Rate:

32 kHz, 48 kHz

Ancillary Data:

RDS data will be extracted from the FM signal and converted to UECP. UECP data can then be embedded in MPEG audio data or transported as Private Stream inside the MPEG-2 Transport Stream.

Transport Protocols (Output):

Over IP:

Output of DVB MPEG-2 transport streams including service information according to ETSI EN 300 468, compliant to Pro-MPEG Code of Practice #3 release 2

Over ASI:

Output of DVB MPEG-2 transport streams including service information according to ETSI EN 300 468

Energy efficient



Network Interfaces:

- 2 separate Ethernet interfaces (IEEE 802.3, RJ45) for data (IP streaming) and control (HTTP, SNMP, ancillary data), optical interfaces (1000 Base X, 100 Base-FX) available
- DVB-ASI (EN 50083-9) output (optional)

System Configuration, Control and Monitoring:

- via Ethernet by accessing the on-system HTTP web server with any internet browser
- via Ethernet using SNMP
- via the front-panel keyboard and display

Power:

Supply voltage: 100 .. 240V +- 10%, 50 .. 60Hz
Optional: -48V DC
Integrated switching power supply
Power consumption: 30W

Power Supply Redundancy Option:

The optional power supply redundancy has the following features:

- Measurement of power supply voltages, values are provided via web GUI or SNMP
- SNMP trap generation on power supply fail
- Activation of switching contacts on power supply fail
- Automatic switch-over in case of power supply fail

Housing:

19" rack mount cabinet, 1U (1RU)
483 mm x 360 mm x 44 mm
Weight: 4,5 kg

Environment:

Working temp. 0°C to 45°C
Storage temp. -20°C to 70°C
Humidity 20% to 90% none condensing

Energy efficient