Optional Items for DT 700

Transport Case

The practical transport case is the ideal solution to protect your DRM Monitoring Receiver DT 700 against handling hazards and to facilitate transportation.

Outside dimensions: 700mm/495mm/240mm (w/d/h) Weight: 10.8 kg. The case features comfort grip handle, tailor-made molded-in inserts and polyester foaming.

Specifications

Mechanical Specifications
Size
- Width: 43.2 cm
- Height: 13.3 cm 14.5 cm with pedestals
- Depth: 40.6 cm, 46 cm with connectors
  Weight: 10 kg

Environmental Specifications
Temperature range: 0 – 40° C
Humidity: 20 – 80 % non-condensing
Voltage range: 110 – 230V, 50-60 Hz AC

Interfaces
- Headphones output with volume control
- Built-in loudspeaker with volume control
- Line output
- Two relays output
- Ethernet 100 Base T-port
- Two RS232 connectors
- Two USB 2.0 connectors
- Antenna input N-type female connector with 50 Ohm

RF Front-end
- Input frequency range: 100 kHz to 27.4 MHz
- 12-band fix-tuned preselector filter bank
- Level measurement accuracy: ±1 dB true RMS
- RF data bandwidth: 40 kHz, ripple 0.2 dB
- DRM spectrum mask monitoring within ±30 kHz
- Input level: -110 to 20 dBm for DRM decoding
- In-Channel IP3; +15 dBm (noise figure 15 dB)
- Out of band IP2: +30 dBm (noise figure 15 dB)
- Phase noise at ±20 Hz: -80 dBc/Hz
- Phase noise at ±20 kHz: -130 dBc/Hz
- Spectral inversion of input signal possible

DRM Receiver
DRM parameters according to ETSI ES 201.980

- 4.5, 5.0, 9.0, 10, 18 and 20 kHz
- Modes A, B, C and D
- QAM 4, 16, 64

- All code rates
- EEP and UEP
- Hierarchical modes
- Simulcast modes

Audio decoder
- MPEG-4 AAC + SBR
- MPEG-4 xHE-AAC
- HVXC + SBR
- CELP + SBR
Audio decoder technology licensed by Dolby

Monitoring
Display, recording and online UDP output (RSCI) of
- Field strength (antenna factor can be specified)
- Estimated signal-to-noise ratio
- Estimated delay spread
- Estimated Doppler spread
- Audio quality
- Frequency offset

Scripts for the conversion of RSCI files into Comma Separated Value CSV files for further processing in spreadsheet or graphics program.Location information via external NMEA-compliant GPS receiver.

- Interface: RS232 or USB
- RSCI output contain GPS information (TAG rgps)

Display of
- Power spectrum
- Channel impulse response
- Field strength
- Signal-to-noise ratio
- Modulation Error Ratio (MER)

Fraunhofer IIS

MPEG-2-AAC is a FhG technology
Audio coding technology licensed by Fraunhofer IIS
www.iis.fhg/de/audio

Contact

Ampegon Power Electronics AG
Kreuzweg, 11 | CH-5400 Baden, Switzerland
Tel. +41 58 710 44 00
info@ampegon.com | ampegon.com

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DT 700

DRM Monitoring Receiver

ampegon.com