
**FEATURES:**

- **DEMODULATOR / FEC:**
  - INPUT FREQUENCY RANGE: 47 TO 862 MHZ
  - COFDM-DEMODULATION AND CHANNEL DECODING FULLY DVB COMPLIANT (ETS 300 744)
  - 2K- AND 8K-Mode WITH 7 AND 8 MHz BANDWIDTH
  - MPEG TRANSPORT STREAM INTERFACE DVB / ASI

- **MPEG DECODER:**
  - VIDEO DECODING: MPEG 2
  - PROCESSING OF AUDIO PROGRAMS (DVB RADIO)
  - AUDIO DECODING: MPEG-1, MPEG-2 (LAYER II)

- **VIDEO ENCODER (OUTPUTS):**
  - COMPONENT (RGB), COMPOSITE (CVBS)
  - PAL, SECAM, NTSC
  - TELETEXT
  - VBI DATA (WSS, VPS)
  - VITS (TEST SIGNAL GENERATION)
  - CHROMINANZ-DECODER 4:2:2
  - LETTERBOX-MODE (16:9 )

- **OPERATION:**
  - DIRECT ENTRY BY DISPLAY, KEYPAD

- **PROVIDES MONITORING AND TEST FUNCTIONS VIA CONTROL SYSTEM AND TEST PORTS**

**OPTIONS:**

**DVB-Common-Interface**
DVB-Common –Interface for Conditional-Access-Moduls (DRP 375E only)

**50, 75**
50 Ω-Input SMA-type or
75 Ω-Input F-type connector

**D: ASI-Decryption**
Decryption of a service at the ASI-Output (DRP 375E only)

**N: Ethernet-Interface**
Remote access via LAN/WAN integrated Web-Server
SNMP-Agent incl. MIB for Integration in an Network-Management-System (NMS)

**S: SDI**
Digitale A/V–Outputs
(Audio: XLR / Video: BNC)

**X: XLR**
Audio-Outputs 2x XLR 3-pin
(Standard: 5-pin DIN female)

## General

DRP 375 is a COFDM-Receiver/Decoder (DVB-T) in a 19" housing (1 RU) designed for stand-alone operation in cable headends. The DVB-T-Receiver/Decoder receives a digital TV program packet with encoded MPEG 2 data in COFDM modulation and generates an MPEG transport stream (ASI) and a video and audio signal.
DRP 375E is equipped with an DVB-Common Interface for different Conditional Access (CA) modules like VIACCESS, CRYPTOWORKS, CONAX or IRDETO. This interface allows the decryption of scrambled services.
Subsequent to demodulation and forward error correction, the MPEG transport stream is externally available at the electrical ASI outputs. ASI decryption is available as option. The TV program decoded by the CA module will then be available in the ASI data stream in a decrypted form.
Internally, the MPEG transport stream is routed to an MPEG decoder. This module demultiplexes the transport stream multiplex and decodes one video channel and one (stereo) audio channel for a TV program. Service selection is performed automatically

Embedded teletext is extracted and inserted into the video signal. The VPS information are generated and inserted according to ETSI EN301775 (A056) or out of the PDC descriptor (EIT-A).

Video and audio signals are available via high quality analog interfaces (video: composite (CVBS) and component (RGB), audio: mono, stereo or dual sound). For 16:9 input format and selected 4:3 video output format an automatic conversion to letterbox format is performed.

Test ports for transport stream (ASI), video and audio can be accessed from the front. Receive signal quality (BER information) and status information are indicated by LEDs.

Operation modes and parameters are selectable by keypad functions within setup and diagnostic menus, displayed by an LCD module.
Remote control is supported by an RS 232 or an Ethernet interface (N-option). For that purpose the user-friendly graphical user-interface DCPM300 is available. Additionally the N-Option incorporates an SNMP-Agent for the integration in an Network-Management-System and an integrated Web-Server for monitoring and configuration with a standard web browser.

| Conditional Access Modules | | |
|---|---|---|
| **Order-No.** | **Name** | **CA-Modul Type** |
| **F030.01** | DCA 311 | Viaccess |
| **F031.01** | DCA 312 | Irdeto |
| **F032.01** | DCA 313 | Mediagard (Seca) |
| **F033.01** | DCA 314 | Conax |
| **F038.01** | DCA 315 | Alphacrypt |
| **F034.01** | DCA 316 | Cryptoworks |

## Specifications

| | | |
|---|---|---|
| **Input** | Connector, impedance | 50 Ω-Input SMA-type or 75 Ω-Input F-type connector |
| | Input frequency range | 47 to 862 MHz |
| | Input signal level | -75 to -20 dBm |
| **Signal Processing** | Demodulation, Channel decoding | acc. to ETS 300 744 |
| | Datal rate | 2K- and 8K-Mode with 7 and 8 MHz Bandwidth |
| | Code Rates | ½, 3/3, ¾, 5/6, 7/8 |
| | User data rates | < 15 Mbit/s |
| | MPEG video decoder | MPEG-2 |
| | Chroma decoding | 4:2:2 |
| | PAL/SECAM resolution | max. 720 x 576 @ 25 Hz |
| | MPEG audio decoder | MPEG-1, MPEG-2 (Layer II) |
| **Outputs** | MPEG TS data output | DVB / ASI (EN 50083-9) |
| | Connector, impedance | 1 x BNC port, 75 Ohm |
| | Analog video output | Component (RGB), Composite (CVBS) |
| | Video formats | PAL, SECAM, NTSC (selectable) |
| | Output level | 1 $V_{pp}$ |
| | Connector, impedance | 4 x BNC female, 75 Ohm |
| | Analog audio output | Mono, stereo (left/right), dual sound |
| | Connector, impedance | 5-pin DIN female (DIN 41524) |
| | Nominal output level | +9 dBm |
| | Output level adjustment range | -30 dB ... +12 dB |
| **Operation / Control** | Display, keypad | Direct entry via keys |
| | Service PC connection | RS 232, 9-pin subminiature D, male |
| | Data rate | 19.2 kbit/s or 2.4 kbit/s |
| | Alarm output signalling (option) | 9-pin subminiature D, male, relay contacts |
| | Ethernetinterface for LAN/WAN (option) | RJ45 (10/100MB/s) |
| **Monitoring** | MPEG transport stream test output | DVB / ASI (EN 50083-9) |
| | Test video output | Composite (CVBS) |
| | Connector, impedance | 2 x BNC female, 75 Ohm |
| | Test audio output | Mono, stereo (left/right), dual sound |
| | Connection | 6.3 mm female, unbalanced |
| | Log file function | Max. 256 entries |
| **Environment** | Operating temperature | 5 bis 45 °C |
| | EMC | EN 50083-2 |
| | Safety | EN 60950-1 |
| | Environmental | ETSI EN 300019-1-3 Class 3.1 |
| **Power Supply** | acc. to DIN/VDE 0804 Mains voltage | 100 $V_{AC}$ to 240 $V_{AC}$<br>50 to 60 Hz,<br>0.4 A to 0.22 A |
| **Mechanical** | Housing | 19" x 1RU |
| | Dimension (W x H x D) | 483 mm x 45 mm x 315 mm |
| **Options** | DVB Common Interface (CA-Option) | VIACCESS, CRYPTOWORKS, CONAX or IRDETO<br>other CA systems on request (DRP 375E only) |
| | ASI-Decryption (D-Option) | Decryption of a service at the ASI-Output (DRP375E only) |
| | Ethernetschnittstelle (N-Option) | Remote access via LAN/WAN, SNMP-Agent for NMS, Configuration, Monitoring with Webserver |
| | SDI (S-Option) | Digital A/V–Outputs (Audio: XLR / Video: BNC) |
| | XLR (X-Option) | Audio-Outputs 2x XLR 3-pin (Standard: DIN 5-pin) |

BD-Rev.3.2

Subject to change without notice !