



ESC-200

8PSK/QPSK-QAM transmodulator

Art.no: 108200.01

PRODUCT INFORMATION

ESC-200

The ESC-200 is a 8PSK/QPSK to QAM transmodulator for HD and SD signals transmitted in DVB-S or DVB-S2. It is designed for use on both VHF and UHF so that every available channel on a Cable TV network can be used.

Features:

- High quality 8PSK/QPSK-QAM transmodulator
- High output level
- DVB-S/-S2 and DVB-C compliant
- Settings via PC or PALM PDA (RS-232)
- Low power consumption



DVB's main transmission standards, DVB-S for Satellite, DVB-C for Cable and DVB-T for terrestrial, dominate the world and are the basis for most of the alternative standards.

design for TV

TECHNICAL SPECIFICATION

(This specification may be subject to change without notice).

Connectors and Interfaces

| | |
|----------------------|---|
| Control connector | 9pin male, D-sub |
| LNB input connector | F female |
| RF output connector | F female |
| LED Indicator lights | Power on, QPSK error, QAM error |
| Remote controls | Settings of LNB, Tuner frequency, Symbol rate, Polarization, Modulation, Output frequency, Output symbol rate and Attenuation |

Miscellaneous

| | |
|-------------------|---|
| Power supply | 6 – 9 VDC |
| Power consumption | < 9 W (excl. LNB feed) Max. 18 W with maximum LNB feed |
| Dimensions | 165x105x20 mm (excl. connectors) |
| Weight | Approx. 330 g |
| Controller | Palm PDA or PC (software included) |
| Operating temp. | 0 to +50°C |

8PSK/QPSK Satellite Receiver

| | |
|--------------------|--|
| Input Frequency | 950 – 2150 MHz |
| Input Level | -65 to -25 dBm |
| Input impedance | 75 Ω |
| Spectral inversion | Yes, selectable |
| LNB voltage | Auto, Off, 13V, 18V programmable.400 mA max. (short circuit protected) |
| 22kHz to LNB | Auto, On or Off programmable |
| Max input bit rate | 53,0 Mbit/s @ 256QAM 39,8 Mbit/s @ 64QAM |
| Min input bit rate | 14,8 Mbit/s @ 16QAM |
| DVB compliant | DVB-S (EN 300 421) DVB-S2 (EN 302 307) |

QAM Cable Modulator

| | |
|-----------------|--------------------------------|
| QAM modes | 16, 32, 64, 128 and 256 QAM |
| Test mode | Continuous Wave (carrier only) |
| Symbol rate | 4 – 7.2 Mbaud/s |
| MER (at RF out) | > 37 dB for 256-QAM |
| DVB compliant | DVB-C (EN 300 429) |

RF Output

| | |
|----------------------|---|
| RF output frequency | 50 - 858 MHz (center frequency) |
| Output impedance | 75 Ω |
| RF out level | 102 dBuV ±3 dB (50-858 MHz) and ±1 dB over temperature (0-50°C) |
| Attenuation range | 0 to -31 dB in 1 dB steps |
| Spurious suppression | > 50 dB (1 – 1200 MHz) |

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