



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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