

## NMT TRANSPONDERS FOR COMTECH DEVICES (DOCSIS)



- DOCSIS/EuroDOCSIS 1.0/1.1/2.0
- SCTE HMS MIB specification
- Noise switch-off control
- Monitoring of the amplifier's parameters
- Monitoring of the signal and noise level in the CATV system
- Remote software-update possibility

### TECHNICAL SPECIFICATION

#### Monitoring parameters

Amplifier's monitored parameters

Peak value of remote power, operation powers, operation temperature, ASG's state, measured return path noise on 6MHz on outputs, transponder's receiver's and transmitter's level.

Optical node's monitored parameters

Peak value of remote power, operation powers, operation temperature, measured return path noise on 6 MHz on outputs, transponder's receiver's and transmitter's level, optical receiver's and transmitter's power, laser's current, laser's temperature, OMI, configuration status.

Controlled parameters

State of the noise switch-off module (Off, On, -6dB, HPF20, Auto).

Possible monitored devices (NMT-F-D)

MT1000, MB1000, LE1000, MO1002, MO1004

#### Transmitter parameters

Signal level range [dBμV]	4TDMA: 68-114 (32QAM, 64QAM); 68-115 (8QAM, 16QAM); 68-118 (QPSK)
	S-CDMA: 68-113 (all modulations)
	4Output level of CM can be automatically controlled by CMTS through power ranging (1dB steps)
Frequency [MHz]	5-65 (EuroDOCSIS)
Output return loss [dB]	>6
Modulation	QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
Bandwidth [kHz]	4TDMA: 200, 400, 800, 1600, 3200 and 6400 4S-CDMA: 1600, 3200 and 6400

#### Receiver parameters

Input level range [dBμV]	57-77 (EuroDOCSIS)
Receiver frequency [MHz]	108-860 (EuroDOCSIS)
Input return loss [dB]	>6 (EuroDOCSIS)

#### Protocols

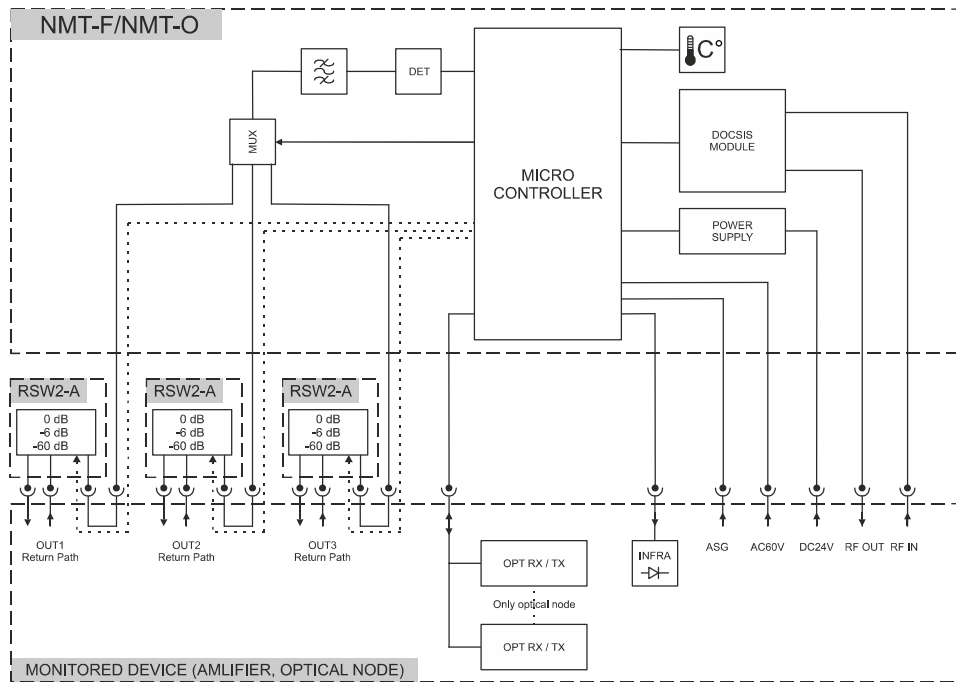
SNMP	SNMP V1, V2 and V3
DOCSIS Monitoring Protocol	DOCSIS V1.0, V1.1, and V2.0

#### General parameters

Specifications are subject to change without notice!

Power supply voltage [V]	+24
Power consumption [W]	4.2
Temperature range [°C]	-40...+60

BLOCK DIAGRAM



ORDERING INFORMATION

**N M T - X - D**



Type of the monitored device group	
F	For amplifiers and optical nodes (MT., MB..., LE., MO1004, MO1002)
O	For MO1003 optical node