

NMT TRANSPONDERS FOR COMTECH DEVICES (HMS, ComMon, SMC)



- Adding monitoring function to the Comtech manufactured devices
- Management of return path ingress control switches
- Headend controlled upstream level
- Helps to keep OPEX low

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)	MT1000, MB1000/1200, LE1000/1200, MO1002, MO1004
Possible monitored devices (NMT-O)	MO1003
Possible monitored devices (NMT-COM1)	MO1001, MO1201
Possible monitored devices (NMT-COM2)	MDO801x
Possible monitored devices (NMT-COM3)	LA836R-C, DA836x-C, LA1000
Possible monitored devices (NMT-COM4)	LA834R-H

RF parameters	NMT-FE/OE	NMT-COM1C	NMT-COM2C	NMT-COM3C	NMT-COM4C
Transmitter output level range [dBμV]			84-110		
Receiver input level range [dBμV]			35-80		
Output level accuracy [dB]			±2		
Transmitter frequency [MHz]			5-65		
Receiver frequency [MHz]			65-302		
Transmitter and receiver frequency raster [kHz]			50		
Transmitter bandwidth [kHz]			400		
Isolation [dB]			-60		
Output impedance [Ω]			75		
Modulation			FSK±67kHz		

Specifications are subject to change without notice!

Protocols

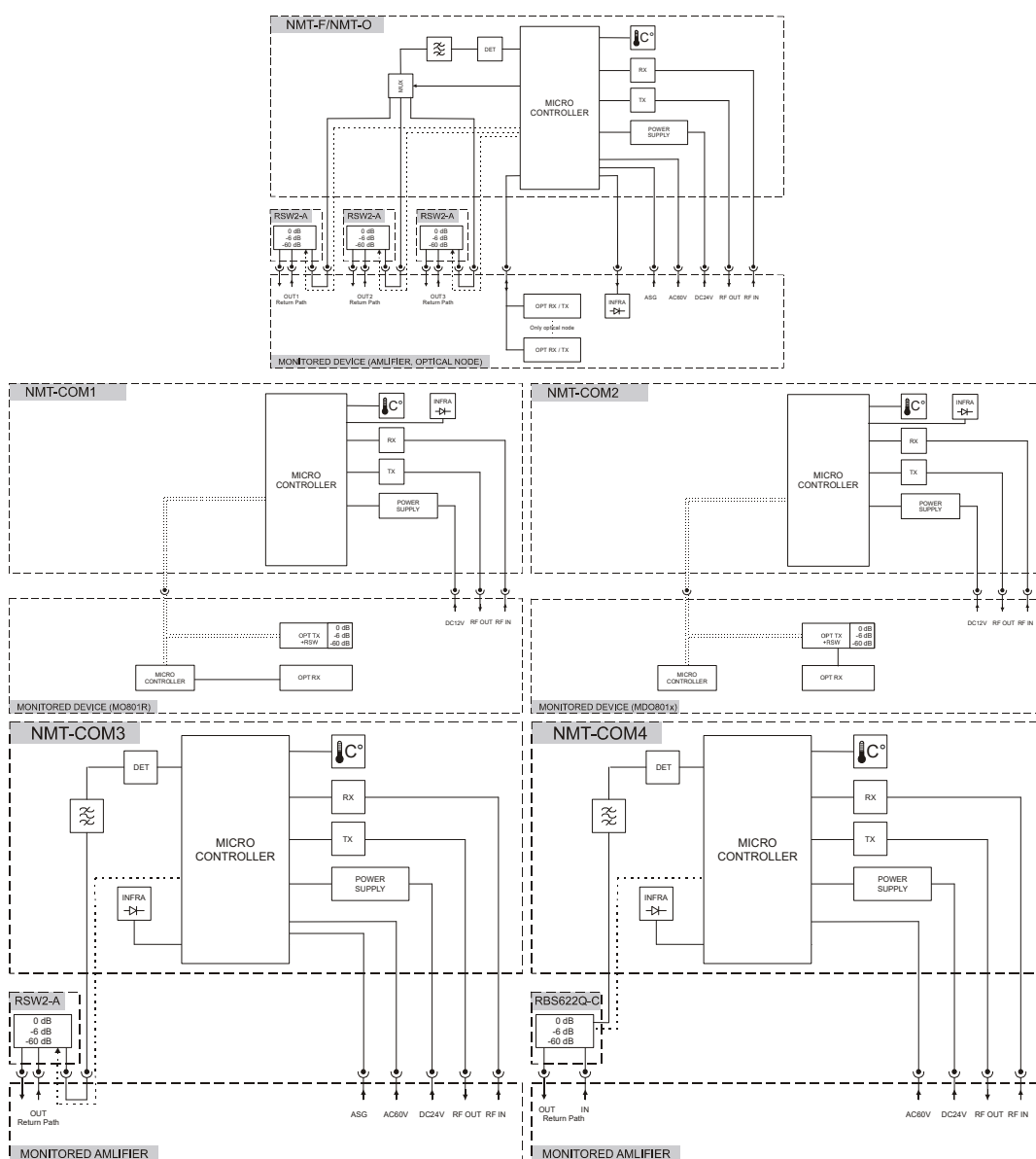
PHY (SCTE 25-1 HMS005)	✓
MAC (SCTE 25-2 HMS004)	✓ ⁽¹⁾
SNMP	v1 ⁽¹⁾

General parameters

Baud rate [baud]	38400				
Power supply voltage [V]	+24	+24	+12	+24	+12
Power consumption [VA]	<1.5				
Temperature range [°C]	-40...+60				

(1) In case of SNMP version

BLOCK DIAGRAM



The RSW2-H20 can be used for NMT-O, NMT-F and NMT-COM3 instead of RSW2-A as well.

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ORDERING INFORMATION

N M T - X E - X

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

Communication standard	
C	Comtech (Default)
H	HMS standard
S	SMC

N M T - C O M X C - X

Type of the monitored device group	
1	MO1001, MO1201
2	MDO801x
3	LA836R-C, DA836x-C, LA1000
4	LA834R-H

Communication standard	
C	Comtech (Default)
H	HMS standard
S	SMC