

HMTS-H NETWORK MONITORING GATEWAY FOR HMS STANDARD PROTOCOL



- Key element of HMS monitoring solutions
- Management of return path ingress control switches
- Return path spectrum analysis
- Automatic setting of transponders' upstream level
- Automatic device replacement function
- Helps to keep OPEX low

GENERAL DESCRIPTION

The HMTS-H network monitoring gateway is able to manage a segment of up to 512 transponders by using standard HMS physical layer protocol. The device is able to realize return path spectrum analysis on the return path frequency range.

TECHNICAL SPECIFICATIONS

RF parameters

TX frequency [MHz]	48-265 ⁽¹⁾
TX frequency raster [kHz]	100
TX FSK modulator [kHz]	67
Output level range [dBμV]	90-115
RX frequency [MHz]	5-65
RX frequency step [kHz]	100
RX FSK modulator [kHz]	67
Input level range [dBμV]	40-80
Receivers count	1 ⁽²⁾

Interfaces

Ethernet 10/100 BaseT	1
RS-485 HMS Headend interface	- ⁽³⁾

Protocols

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

Operation mode

Gateway	✓
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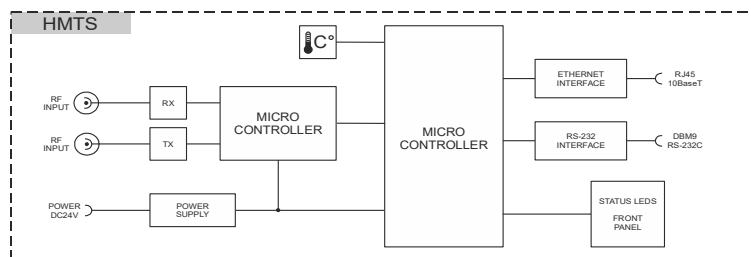
Other

Size	1U/2 ⁽⁴⁾
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Specifications are subject to change without notice!

- (1) The specific frequency range (in 6MHz group referring to the HMS standard) can be given in the ordering information.
- (2) Comtech HMTS-H has 1 return path input in the current version.
- (3) Comtech HMTS-H has no RS-485 connector to the headend devices in the current version.
- (4) You need an HM-1002 mainframe which accomodates 2 HMTS devices. The HM-1002 assures the power for HMTS'.

BLOCK DIAGRAM



ORDERING INFORMATION

H M T S - X X - X

Communication standard	
H	HMS Standard

Transmitter frequency range			
01	48-54 MHz	11	108-114 MHz (A-2)
02	54-60 MHz (Channel 2)	12	114-120 MHz (A-1)
03	60-66 MHz (Channel 3)	13	120-126 MHz (Channel 14)
04	66-72 MHz (Channel 4)	14	126-132 MHz (Channel 15)
05	72-78 MHz	15	132-138 MHz (Channel 16)
06	78-84 MHz (~ Channel 5)	16	138-144 MHz (Channel 17)
07	84-90 MHz (~ Channel 6)	17	144-150 MHz (Channel 18)
08	90-96 MHz (A-5)	18	150-156 MHz (Channel 19)
09	96-102 MHz (A-4)	19	156-162 MHz (Channel 20)
10	102-108 MHz (A-3)	29	258-265 MHz (Channel 30)

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