

**HDM100 MANAGEMENT MODEM**

HDM100 is a management modem in HDO mechanics. It communicates with HFC network transponders via its RF modem, maintains a list of transponder statuses, manages the data link and provides connectivity between element/network management system and transponders.

HDM100 is available in two software versions: HDM100 H and HDM100 T. The versions are field interchangeable.

**HDM100 T** uses Teleste CATVisor protocol for modem communication and can be used with all Teleste transponders supporting CATVisor protocol.

**HDM100 T** in cluster mode: Return path segmentation can be accomplished by combining multiple HDM100 T units to a cluster with one HDM100 acting as master with both its transmitter and receiver enabled, and 1...8 HDM100 T units acting as slaves with only their receiver enabled.

**HDM100 H** uses SCTE HMS protocol for modem communication and can be used with all Teleste transponders supporting HMS protocol, and also with 3<sup>rd</sup> party transponders conforming to HMS standards.



**Features**

- RF modem compatible with SCTE 25-1 (HMS005)
- Receive level measurement and ALC functionality
- Intelligent HFC polling enhances data throughput
- Front and rear panel 10/100Base-T Ethernet ports
- HDO bus connection for local configuration
- LED indicators for LAN, module and modem statuses
- Linux architecture with remote software update
- Transponder IP addresses can be assigned remotely
- Manages up to 500 transponders

**Technical specifications**

Parameter	Specification	Note
<b>RF modem</b>		
Data rate	38400 bps	
Modulation method	FSK, $\Delta f = \pm 67$ kHz	
Channel bandwidth	400 kHz	1)
Downstream frequency range	78...200 MHz and 255...285 MHz	2)
Upstream frequency range	5...65 MHz	
Frequency raster	100 kHz	
Frequency inaccuracy	< 10 kHz	
Downstream output level range	80...105 dB $\mu$ V	3)
Upstream input level range	45...90 dB $\mu$ V	4)
Return loss, transmitter port	> 8 dB	5)
Return loss, receiver port	> 12 dB	6)
Transmit power delta ("0" vs. "1")	< 1 dB	
Transmitter spurious	< -65 dBc	7)

