

**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 supports CATVisor protocol and can be used with all Teleste transponders equipped with CATVisor software.

HDM100 H supports HMS protocol and can be used with all Teleste transponders equipped with HMS software, 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, $\Delta f = 67$ kHz	
Channel bandwidth	400 kHz	1)
Downstream frequency range	80...200 MHz	agile
Upstream frequency range	5...65 MHz	agile
Frequency raster	100 kHz	
Frequency inaccuracy	< 10 kHz	
Downstream output level range	80...105 dB $\mu$ V	2)
Upstream input level range	45...90 dB $\mu$ V	3)
Return loss, transmitter port	> 8 dB	4)
Return loss, receiver port	> 12 dB	4)
Transmit power delta ("0" vs. "1")	< 1 dB	
Transmitter spurious	< -65 dBc	5)
<b>Ethernet interface</b>		
Connector	RJ-45 socket	
Standard	10/100Base-T	

