

# COMMSCOPE TM3402

## DOCSIS 3.1 MODEM WITH 2 VOICE PORTS

The TM3402 DOCSIS 3.1 enables multi-gigabit data rates to be delivered to cable customers for all IP-capable services (Internet, Data, Voice and Video), with two lines of VoIP service based on PacketCable specifications. A switchable US filter provides for superior RF performance, reducing the potential for interference in the home network, and allows the flexibility required for MSO transitions from DOCSIS 3.0 to DOCSIS 3.1. Multi-process and large memory capacity allows new applications to be deployed on the modem.



- 2 x 2 OFDM/OFDMA DOCSIS 3.1 channels
- 32 x 8 SCQAM DOCSIS 3.0 channels
- Full Capture Bandwidth Tuner
- Switchable US filter options include: 5-42MHz or 5-85MHz
- DS frequency range: 108-1002MHz
- Multi-processor Technology (ARM and ATOM based Application Processor)
- 4 Port Gigabit Ethernet LAN and 2 RJ-11 VoIP ports
- Link Aggregation for up to 2 LAN ports
- Support for NCS, Legacy SIP, and PacketCable™ 2.0/1.5/1.0 signaling
- Multiple L2VPN BSoD support with OAM extensions
- PNM based network monitoring and diagnostics
- DS / US spectrum analyzer functionality

HARDWARE		Data Rate (Mbps Max.)	Up to 1Gbps
Operating Temperature	0 to 40°C	RF Output Level	+65 dBmV(64QAM, single US)
Operating Relative Humidity	5-85% (Non condensing)		+57 dBmV(64QAM, 4-8 US)
Storage Temperature	-40 to 70°C		+65 dBmV(16QAM, single US)
			+65 dBmV(OFDMA)
RF DOWNSTREAM		INTERFACES	
Dimensions (H x W x D)	193mm x 53mm x 157mm (7.6inx 2.1inx 6.2in)	RF Interface	1 External 'F' type connector
Weight	0.5kg 1.1lbs	Date Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Diagnostic LED's (Front)	Power, DS/US, Online, Tel1, Tel2, Battery	Analog Telephony Interface	2xVoIP RJ-11
Diagnostic LED's (Rear)	Ethernet Link/Speed	Input Voltage (nominal)	12VDC, 2.5A (adapter) 100-240V, 50/60Hz, 0.8A
RF UPSTREAM		VOICE	
Bonded Channels	Up to 32 SCQAM and/or 2 OFDM	Standards Supported	PC2.0/1.5/1.0, RFC-3261
Tuner Configuration	Full capture tuning range	Codecs Support	G.711, G.722, G.729
Frequency Range (MHz)	108MHz -1002MHz DOCSIS	Fax	T.38
Data Rate (Mbps Max.)	Up to 5Gbps	REN Capability	5 REN / Line, 10 REN Total
RF Input Sensitivity Level	-15dBmV to +15dBmV (DOCSIS)	Flexible LC Templates	Line Card Support
Bonded Channels	Up to 8 SCQAM and/or 2 OFDMA		
Frequency Range	5MHz to 85MHz		
Configurable Diplex Filter	42MHz or 85MHz options		

## POWER SUPPLY

- 12 V DC
- 2.5 A
- 30 W