PRODUCT OVERVIEW

The TM3402 DOCSIS 3.1 implementation allows unprecedented data rates to be delivered to MSO customers, along with two lines of VoIP service based on PacketCable™ specifications. The TM3402 is designed to enable deployment of Gigabit+ data services. Switchable US filter provides for superior RF performance, reduce the potential for interference in the home network, and allows the flexibility required for MSO transitions from DOCSIS 3.0 to DOCSIS 3.1. Increased memory allows new applications to be deployed on the modem. Overall, this feature-packed unit is intended to serve as the hub of a subscriber network, connecting all IP-capable devices (Internet, Data, Voice and Video) throughout the customer premises.

With residential high-speed data service, MSO support becomes a top concern. The TM3402 distinguishes itself by providing tools to minimize the complexity of support. US and DS spectrum analysis along with proactive network management based diagnostics take the monitoring and diagnostic capabilities of the TM3402 to a premium level. OAM extensions to L2VPN allow for system-level provisioning and diagnostics. Multiple provisioning methods (SNMP, Configuration File, WebGUI access) allow custom-designed setup to be applied to monitor the end user more efficiently. Multiple remote access levels also ease manual configuration and control. The TM3402 is defining the future for advanced residential and SOHO services.
Touchstone TM3402 DOCSIS 3.1 Telephony Modem

**SPECIFICATIONS**

### Physical
- **Operating Temp (°C)**: 0 – 40
- **Operating Relative Humidity**: 5-85% (Non-Condensing)
- **Storage Temp (°C)**: -40 to 70
- **Dimensions, HxWxD (in)**: 7.6 x 2.1 x 6.2
- **Weight (lbs °C)**: 1.1
- **Diagnostic LEDs (Front)**: Power, DS/US, Online, Tel1, Tel2, Battery
- **Diagnostic LEDs (Rear)**: Ethernet Link/Speed

### Interfaces
- **RF Interface**: 1 External ‘F’ Connector
- **Data Interfaces (Bridged)**: 4x 10/100/1000 Base-T Ethernet RJ-45
- **Telephone Interfaces**: 2x VoIP RJ-11
- **Input Voltage (Nominal)**: 12VDC, 2.5A (adapter) 100-240V, 50/60Hz,

### Voice
- **Standards Supported**: PC2.0/1.5/1.0, RFC-
- **CODECs Supported**: G.711, G.722, G.729
- **FAX**: T.38
- **REN Capability**: 5 REN / Line, 10 REN Total
- **Line Card Support**: Flexible LC Templates

### RF Downstream
- **Bonded Channels**: Up to 32 SC-QAM 2 OFDM
- **Tuner Configuration**: Full Capture Tuning
- **Frequency Range (MHz)**: 108 – 1002 (DOCSIS)
- **Data Rate (Gbps, Max)**: 5.0
- **RF Input Sensitivity Level (dBmV)**: -15 to +15 (DOCSIS)

### RF Upstream
- **Bonded Channels**: Up to 8 SC-QAM and/or 2 OFDMA
- **Frequency Range (MHz)**: 5 – 85 (DOCSIS)
- **Configurable Diplex Filter (MHz)**: 42 or 85 options
- **Data Rate (Gbps Max)**: > 1.0
- **RF Output Level (dBmV)**: +65 (64QAM, single US) +57 (64QAM, 4-8 US) +65 (16QAM, single US) +65 (OFDMA)

### ORDERING NUMBERS
- **1000358**: TM3402A/NA; D3.1 eMTA, 42/85MHz US, 108-1002MHz DS, 2x RJ-11, 4x GigE, Supports External LPSU, AC/DC Adapter (100-240VAC, 50/60Hz, NEMA1-15, DoE6), No USB, RoHS

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