Touchstone® TM3402 Telephony Modem

DOCSIS® 3.1 Modem with 2 voice ports

FEATURES

- 2x2 OFDM/OFDMA DOCSIS® 3.1 channels
- 32x8 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

PRODUCT OVERVIEW

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.

The TM3402 lowers OPEX costs by enabling proactive network management with remote monitoring and diagnostics, including US and DS spectrum analysis. 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.
Touchstone® TM3402 Telephony Modem

SPECIFICATIONS

Physical
Operating Temperature 0 to 40°C
Operating Relative Humidity 5-85% (Non condensing)
Storage Temperature -40 to 70°C
Dimensions (H x W x D) 7.6in x 2.1in x 6.2in
Weight 1.1 lbs
Diagnostic LED’s (Front) Power, DS/US, Online, Tel1, Tel2, Battery
Diagnostic LED’s (Rear) Ethernet Link/Speed

Interfaces
RF Interface 1 External ‘F’ type connector
Data Interfaces (bridged) 4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Analog Telephony Interface 2x VoIP RJ-11
Input Voltage (nominal) 12VDC, 2.5A (adapter) 100-240V, 50/60Hz, 0.8A

Voice
Standards Supported PC2.0/1.5/1.0, RFC-3261
Codecs Support G.711, G.722, G.729
Fax T.38
REN Capability 5 REN / Line, 10 REN Total
Line Card Support Flexible LC Templates

SPECIFICATIONS - CONTINUED

RF Downstream
Bonded Channels Up to 32 SCQAM and/or 2 OFDM
Tuner Configuration Full capture tuning range
Frequency Range 108 – 1002 (DOCSIS)
Data Rate 5Gbps (Max)
RF Input Sensitivity Level -15dBmV to +15dBmV (DOCSIS)

RF Upstream
Bonded Channels Up to 8 SCQAM and/or 2 OFDMA
Frequency Range 5MHz to 85MHz (DOCSIS)
Configurable Diplex Filter 42MHz or 85MHz options
Data Rate > 1Gbps (Max)
RF Output Level +65 dBmV (64QAM, single US)
      +57 dBmV (64QAM, 4-8 US)
      +65 dBmV (16QAM, single US)
      +65 dBmV (OFDMA)

ORDERING INFORMATION

Model Description
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

CUSTOMER CARE

Contact Customer Care for product information and sales:
• United States: 866-36-ARRIS
• International: +1-678-473-5656

Note: Specifications are subject to change without notice. Copyright Statement: © 2017 ARRIS Enterprises, LLC. All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, LLC ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS and the ARRIS logo are registered trademarks of ARRIS Enterprises, LLC. All rights reserved. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks or the names of their products. ARRIS disclaims proprietary interest in the marks and names of others.

www.arris.com

TG3402-Telephony-Modem (v1 10-2017)