

Touchstone TM9202

DOCSIS 3.1 Telephony Modem

FEATURES

- 2x2 OFDM/OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM DOCSIS® 3.0 channels
- Full Capture Bandwidth Tuner
- Switchable US filter options include: 5-85MHz or 5-204MHz
- Switchable DS frequency range: 108/258-1218MHz
- Multi Processor Technology
- 1 Port 2.5 Gigabit Ethernet LAN and 2 RJ-11 VoIP ports
- Support for NCS and PacketCable™ 2.0 signaling
- Multiple L2VPN BSoD support with OAM extensions
- PNM based network monitoring and diagnostics
- DS / US spectrum analyzer functionality



PRODUCT OVERVIEW

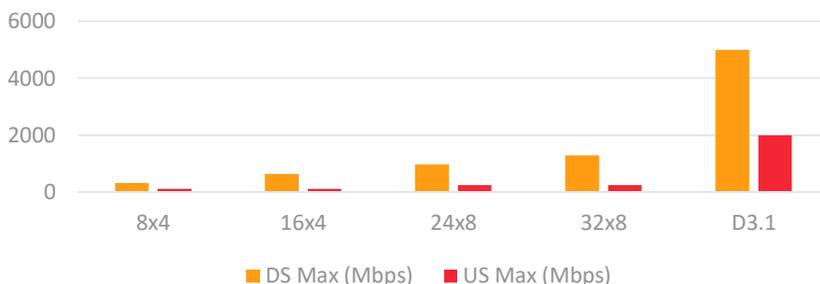
The TM9202 DOCSIS 3.1 implementation allows unprecedented data rates to be delivered to subscribers, along with two lines of VoIP service based on PacketCable™ specifications. The TM9202 is designed to enable deployment of multi-gigabit data services (up to 2.5Gbps max theoretical). Switchable US filter provides for flexible RF performance, reduced potential for interference in the home network, and flexibility in a Service Provider's transition from DOCSIS 3.0 to DOCSIS 3.1. Overall, this feature-packed unit is intended to serve as the hub of a subscriber's network, connecting all IP-capable devices (Internet, Data, Voice and Video) throughout the customer premises.

With residential high-speed data service, support is a top concern. The TM9202 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 TM9202 to a premium level. OAM extensions to L2VPN allow for system-level provisioning and diagnostics. Multiple provisioning methods (SNMP and Configuration File) allow custom-designed setup to be applied to monitor the end user more efficiently. An intuitive Graphical User Interface eases troubleshooting and control. The TM9202 is defining the future for advanced residential and SOHO services.

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DOCSIS 3.0 vs DOCSIS 3.1 Speeds



SPECIFICATIONS

Physical

Operating Temp (°C)	0 – 40
Operating Relative Humidity	5-95% (Non-Condensing)
Storage Temp (°C)	-40 to 70
Dimensions, HxWxD (in)	7.1 x 2.4 x 6.0
Weight (lbs) °C)	1.0
Diagnostic LEDs (Front)	Power, Internet, Voice, Battery
Diagnostic LEDs (Rear)	Ethernet Link/Speed

Interfaces

RF Interface	1 External 'F' Connector
Data Interfaces	1x 100/1000/2500 Base-T Ethernet RJ-45
Telephone Interfaces	2x VoIP RJ-11
Input Voltage (Nominal)	12VDC, 1.5A (adapter) 100-120V, 60Hz, 0.6A
Battery Telemetry	4-pin TBxxx interface

Voice

Standards Supported	PC2.0/1.5
CODECs Supported	G.711, G.722, G.729
FAX	T.38
REN Capability	5 REN / Line, 10 REN Total
Line Card Support	North American Template

SPECIFICATIONS

RF Downstream

Bonded Channels	Up to 32 SC-QAM and/or 2 OFDM
Tuner Configuration	Full Capture Tuning Range
Frequency Range (MHz)	108/258 – 1218 (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 / 5 – 204 (DOCSIS)
Configurable Diplex Filter (MHz)	85 or 204 options
Data Rate (Gbps Max)	~ 2.3
RF Output Level (dBmV)	+57 (64QAM, single US) +54 (64QAM, 4-8 US) +58 (16QAM, single US) +65 (OFDMA)

ORDERING NUMBERS

1001611	TM9202AP2/NA-204;D3.1, 5-85/204MHZ US,108-258/1218MHZ DS, 2X RJ-11,1X 2.5G, EXT PSU (100-120VAC,50/60HZ,NEMA1-15, 12V/1.5A),PHASE 2
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CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
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