## TG9452 | Touchstone® TG9452 Cable Voice Gateway



Product Classification

## DOCSIS® 3.1 Cable Voice Gateway with Wi-Fi 6

- 2x2 OFDM and OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM DOCSIS® 3.0 channels
- Dual Band Concurrent 4x4:4 5GHz 802.11ax radios
- 1 nBase-T 2.5Gbps Ethernet port
- 2 port Gigabit Ethernet Router
- Switchable upstream filters for 42MHz or 85MHz operation
- Full Capture Bandwidth Tuner
- MoCA® 2.0 (with channel bonding) for in Home Video and Data distribution over Coax
- Multiple SSID support with DFS channels and Dynamic Channel change
- Multiple operator controlled configuration options

Regional AvailabilityNorth AmericaGeneral SpecificationsAccess TechnologyDOCSIS 3.1Channel BondingUp to 32x8 SC-QAM, 2x2 OFDM/ADiagnostic LEDsEthernet Link/Speed LEDs   Integrated LED for status of Internet, WPS, Wi-Fi and PowerEthernet Ports2 x GigE, 1 x 2.5 GbEInterfaces1 x 10/100/1000/2500 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   5 dBmV 100/1000 Base-T Ethernet (RJ45 connector)   5 dBmVRF Downstream Frequency Range108-1002 MHzRF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Input Sensitivity Level10 to 5 Gb/sRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4*8 upstreams)   57 dBmV (64 QAM, single upstream)   65 dBmV (0FDMA)		
Access TechnologyD0CSIS 3.1Channel BondingUp to 32x8 SC-QAM, 2x2 OFDM/ADiagnostic LEDsEthernet Link/Speed LEDs   Integrated LED for status of Internet, WPS, Wi-Fi and PowerEthernet Ports2 x GigE, 1 x 2.5 GbEInterfacesI x 10/100/1000/2500 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   1"F type connectorRF Downstream Frequency Range108-1002 MHzRF Downstream Input Sensitivity LevelUp to 32 SCQAM or 2 OFDMRF Downstream Input Sensitivity LevelSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output LevelSwitchable 5-42 MHz or 5-85 MHzRF Upstream Output LevelSwitchable 5-42 MHz or 5-85 MHz	Regional Availability	North America
Channel BondingUp to 32x8 SC-QAM, 2x2 OFDM/ADiagnostic LEDsEthernet Link/Speed LEDs   Integrated LED for status of Internet, WPS, Wi-Fi and PowerEthernet Ports2 x GigE, 1 x 2.5 GbEInterfaces1 x 10/100/1000/2500 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   'F' type connectorRF Downstream Frequency Range108-1002 MHzRF Downstream Bonded Channels, quantityUp to 32 SCQAM or 2 OFDMRF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   58 dBmV (16 QAM, single upstream)   65 dBmV (0FDMA)	General Specifications	
Diagnostic LEDsEthernet Link/Speed LEDs   Integrated LED for status of Internet, WPS, Wi-Fi and PowerEthernet Ports2 x GigE, 1 x 2.5 GbEInterfaces1 x 10/100/1000/2500 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   'F' type connectorRF Downstream Frequency Range108-1002 MHzRF Downstream Bonded Channels, quantityUp to 32 SCQAM or 2 OFDMRF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Prequency RangeWitchable 5-42 MHz or 5-85 MHzRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   58 dBmV (16 QAM, single upstream)   65 dBmV (0FDMA)	Access Technology	DOCSIS 3.1
and PowerEthernet Ports2 x GigE, 1 x 2.5 GbEInterfaces1 x 10/100/12000/2500 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   'F' type connectorRF Downstream Frequency Range108–1002 MHzRF Downstream Bonded Channels, quantityUp to 32 SCQAM or 2 OFDMRF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Data RateUp to 5 Gb/sRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   65 dBmV (0FDMA)	Channel Bonding	Up to 32x8 SC-QAM, 2x2 OFDM/A
Interfaces1 x 10/100/1000/2500 Base-T Ethernet (RJ45 connector)   2 lines; RJ11   2 x 10/100/1000 Base-T Ethernet (RJ45 connector)   'F' type connectorRF Downstream Frequency Range108–1002 MHzRF Downstream Bonded Channels, quantityUp to 32 SCQAM or 2 OFDMRF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Data RateUp to 5 Gb/sRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   65 dBmV (OFDMA)	Diagnostic LEDs	
IO/100/1000 Base-T Ethernet (RJ45 connector)   'F' type connectorRF Downstream Frequency Range108–1002 MHzRF Downstream Bonded Channels, quantityUp to 32 SCQAM or 2 OFDMRF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Data RateUp to 5 Gb/sRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   65 dBmV (OFDMA)	Ethernet Ports	2 x GigE, 1 x 2.5 GbE
RF Downstream Bonded Channels, quantityUp to 32 SCQAM or 2 OFDMRF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Data RateUp to 5 Gb/sRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   65 dBmV (OFDMA)	Interfaces	
RF Downstream Input Sensitivity Level-15 dBmV to 15 dBmVRF Downstream Data RateUp to 5 Gb/sRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   58 dBmV (16 QAM, single upstream)   65 dBmV (OFDMA)	RF Downstream Frequency Range	108–1002 MHz
RF Downstream Data RateUp to 5 Gb/sRF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   65 dBmV (0FDMA)	RF Downstream Bonded Channels, quantity	Up to 32 SCQAM or 2 OFDM
RF Upstream Frequency RangeSwitchable 5-42 MHz or 5-85 MHzRF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   58 dBmV (16 QAM, single upstream)   65 dBmV (OFDMA)	RF Downstream Input Sensitivity Level	-15 dBmV to 15 dBmV
RF Upstream Bonded Channels, quantityUp to 8 SCQAM or 2 OFDMARF Upstream Output Level54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   58 dBmV (16 QAM, single upstream)   65 dBmV (OFDMA)	RF Downstream Data Rate	Up to 5 Gb/s
<b>RF Upstream Output Level</b> 54 dBmV (64 QAM, 4-8 upstreams)   57 dBmV (64 QAM, single upstream)   58 dBmV (16 QAM, single upstream)   65 dBmV (0FDMA)	RF Upstream Frequency Range	Switchable 5–42 MHz or 5–85 MHz
upstream)   58 dBmV (16 QAM, single upstream)   65 dBmV (OFDMA)	RF Upstream Bonded Channels, quantity	Up to 8 SCQAM or 2 OFDMA
	RF Upstream Output Level	
RF Upstream Data Rate Up to 1 Gb/s	RF Upstream Data Rate	Up to 1 Gb/s
Type Gateway	Туре	Gateway
Voice Yes	Voice	Yes
Voice Ports, quantity 2	Voice Ports, quantity	2

Page 1 of 2

©2020 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: September 25, 2020



## TG9452 | Touchstone® TG9452 Cable Voice

## Gateway

Wi-Fi Interface Standard	IEEE 802.11ax
Wi-Fi Band	2.4 GHz   5 GHz
Wi-Fi Interface Standard at 2.4 GHz	4x4, 802.11ax
Wi-Fi Interface Standard at 5 GHz	4x4, 802.11ax
Dimensions	
Height	281.94 mm   11.1 in
Width	74.93 mm   2.95 in
Length	204.978 mm   8.07 in
Electrical Specifications	
Voltage, dc	12 V
Environmental Specifications	
Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Packaging and Weights	
Weight, net	0.953 kg   2.1 lb

Page 2 of 2

©2020 CommScope, Inc. All rights reserved. All trademarks identified by ® or <sup>™</sup> are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: September 25, 2020

