

Touchstone[®] TG6441 Cable Voice Gateway

DOCSIS® 3.1 Gateway with Wi-Fi 6

FEATURES

- 2x2 OFDM and OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM EuroDOCSIS ® 3.0 channels
- Full Capture Bandwidth Tuner
- Switchable diplexer 5-85 MHz or 5-204 MHz
- 4 port Gigabit Ethernet Router
- 4x4 2.4GHz 802.11ax
- 4x4 5GHz 802.11ax
- 1 FXS Ports of carrier grade VoIP with HD voice
- Multi Processor Technology for enhanced application support
- Advanced Firmware support for IPV6, DS-Lite, and SoftGRE
- RDK-B Based





PRODUCT OVERVIEW

The TG6441 Cable Voice Gateway supporting DOCSIS 3.1 allows multi-gigabit data rates to be delivered to cable service provider's home and small business customers. The TG6441 with its 4x4 Wi-Fi 6 Dual-band radios, offers superior Wi-Fi performance enabling reliable Ultra HD video over Wi-Fi.

An upstream frequency range up to 204MHz for increased upstream capacity to support video conferencing and other symmetrical bandwidth applications with a switchable diplexer for ease of deployment on DOCSIS 3.1 networks.

High-capacity DRAM, Flash and Multiple embedded processor cores are designed to allow new applications to be deployed on the gateway. This feature-packed unit is intended to serve as the hub of the subscriber's network, connecting all IP capable devices(Internet, Data, Voice and Video) throughout the customers premises.

To minimize support OPEX costs the TG6441 provides features for remote management and diagnostics. Multiple provisioning methods (SNMP, Configuration File, Remote WebGUI access, TFTP, and TR-069/181) allow custom designed setups to be applied to monitor the end user more efficiently. Multiple remote access levels (User and MSO) also allow more ease and flexibility for manual configuration and control.



SPECIFICATIONS	
Physical	
Operating Temperature	0 to 40°C
Operating Relative Humic	lity 5-95% (non-condensing)
Storage Temperature	-40 to 70°C
Dimensions (H x W x D)	246 mm x 199 mm x 64 mm (excludes 'F' connector)
Weight	0.825kg
Diagnostic LEDs (Front)	PHONE, INTERNET, WPS, WIFI, POWER
Diagnostic LEDs (Rear)	Ethernet Link/Speed
Front Switches	WPS, WIFI
Interfaces	
RF Interface	External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Analog Telephony Interface	1 line; RJ-11
Input Voltage (nominal)	12V DC
Input Current (max)	3.0A
RF Downstream	
Bonded Channels	Up to 32 SCQAM and/or 2 OFDM
Tuner Configuration	Full capture tuning range
Frequency Range	108-254MHz-1218MHz DOCSIS
Data Rate	Up to 5 Gbps
RF Input Sensitivity Level	-15 dBmV to +15 dBmV (DOCSIS)
RF Upstream	
Bonded Channels	Up to 8 SCQAM and/or 2 OFDMA
Frequency Range	5MHz to 85MHz or 5MHZ to 204MHz
Data Rate	Up to 1 Gbps
RF Output Level	+65 dBmV(64QAM, single US) +57 dBmV(64QAM, 4-8 US) +65 dBmV(16QAM, single US) +65 dBmV(OFDMA)

SPECIFICATIONS

EuroPacketCable™ NCS (1.5/2.0) Network-based call signaling protocol (PKT-SP-EC-MGCP) RFC 3261 SIP RFC 2805 MGCP
G.711, G.722, G.729ab
T.38, G.711 Fax Passthrough
5 REN Total
Call Waiting Call Hold 3PTY Call Caller ID Voice Activity Detection (VAD) Comfort Noise Generation (CNG) Echo cancellation: G.165 G.168 up to 16 ms
RFC 2833
DTMF/pulse tones Pulse/DTMF tones conversion
RFC 1889 RFC 1890
Flexible LC Templates
2.4GHz and 5GHz
+ 31.5dBm (MCS0, 2.4GHz, HT20) + 30.5dBm (MCS7, 2.4GHz, VE20) + 32.5dBm (MCS0, 5GHz, VHT20) + 29.5dBm (MCS9, 5GHz, VE80) + 28.0dBm (MCS11, 5GHz, VE160)
4 for 2.4GHz, 4 for 5GHz
-94dBm 802.11ax (MCS0, 2.4GHz, VE20) -93dBm 802.11ax (MCS0, 5GHz, VE20)



SPECIFICATIONS	
Network & Services	
Network Protocols	Dual stack IP (IPv4, IPv6) TCP, UDP ARP, ICMP, DHCP TFTP, SNMP, HTTP(s), Telnet
Parental Control	URL-based website filtering Time-based access control
Routing modes	Transparent bridging Routed modes
Network Protocols	Dual stack IP (IPv4, IPv6) TCP, UDP ARP, ICMP, DHCP TFTP, SNMP, HTTP(s), Telnet
Wireless QoS	WMM (BE, BK, VI, VO access categories) queuing and scheduling

SPECIFICATIONS

SNMP	SNMP v1, SNMP v2, SNMP v3
Web-based user	User-friendly GUI via HTTP
interface management	Command Line Interface (CLI)
and administration	
CPE WAN Management	TR-069
Protocol (CWMP)	TR-181
Security	
Docsissecurity	BaselinePrivacyInterface Plus(BPI+)
Docsissecurity SW security	BaselinePrivacyInterface Plus(BPI+) Stateful Packet Inspection Firewall (SPIF)
•	Stateful Packet Inspection Firewall (SPIF)
•	Stateful Packet Inspection Firewall
•	Stateful Packet Inspection Firewall (SPIF) Customizable firewall security levels

ORDERING INFORMATION	
Model	Description
1001422	TG6441B/CE,WIFI 6 VOICE GATEWAY,DOCSIS 3.1,2X2,EURODOCSIS 3.0,32X8,EURO ADAPTER