

# TG6441B

## Wireless Gateway

### FEATURES:

- DOCSIS 3.1 2x2 with EuroDOCSIS 3.0 32x8 Channel Bonding
- Switchable Upstream diplexer
- 2.5Gbps Downstream support with internal Spectrum Analyzer
- Dual Mode Scanning Support
- Full Capture Bandwidth Tuner
- Multi Processor Technology with Intel Atom Core Application Processor
- 4 port Gigabit Ethernet switch
- 4x4:4 Wi-Fi 6 Dual Band Concurrent Radio
- Advanced Firmware support for IPv6, DS-Lite, and SoftGRE
- One FXS lines of carrier-grade VoIP with HD voice support



### PRODUCT OVERVIEW:

Operators are wanting to push the limits on DOCSIS 3.1 performance and the user experience delivered to the customer. The TG6441B with its superior Wi-Fi 6 Dual Band Wireless radios and Gigabit Ethernet interfaces can deliver this performance while also offering improvements in home coverage above that of other models. This feature-packed unit is intended to serve as the hub of the subscribers network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customers premises.

Residential gateway support has always been a concern of the operator. The TG6441B distinguishes itself with capabilities to minimize these support needs. 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, Cusadmin, technician and MSO) also allow more ease and flexibility for manual configuration and control.

The TG6441B will help lead the future to advanced home and small office services.

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## Interface Speeds

Wi-Fi	2.5 Gbps
DOCSIS D/S	2 Gbps
DOCSIS U/S	1 Gbps

## SPECIFICATIONS

### Physical

Operating Temperature °C	0 to 40
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature °C	-40 to 70
Dimensions (H x W x D) mm	200 x 160 x 52 (excludes "F" connector)
Weight kgs.	0.8
Diagnostic LED's (Front)	Phone, Internet, WPS, Wi-Fi, Power
Diagnostic LED's (Rear)	Ethernet Link/Speed
Front Switches	WPS

### 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 lines; RJ-11
Input Voltage (nominal)	12VDC
Input Current (max)	2.5Amps

### Telephony

Supervisory Voltage	48 Vdc nominal
Ringing Load Capacity	3 REN
Provisionable High Loop Current Mode	Yes (40mA constant current source)
Codec Support	G.729, G.711, G.722

### RF Downstream

Bonded Channels/OFDM	Up to 32/2
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108/258 to 1218 (switchable)
Data Rate (Mbps Max.)	> 4 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS))

### RF Upstream

Bonded Channels	Up to 8 SCQAM or 2 OFDMA
Frequency Range (MHz)	5 to 85/204 (switchable)
Data Rate (Mbps Max.)	up to 1 Gbps
RF Output Level (dBmV)	+65 dBmV (64 QAM, single upstream) +57dBmV (64QAM, 4-8 upstreams) +65 dBmV (16 QAM, single upstreams)

### Wireless 2.4GHz & 5 GHz

Transmit Power (from any antenna)	+27dBm (MCS7) +26dBm (MCS9)
Spatial Streams	4 for 2.4GHz, 4 for 5GHz
Receive Levels	2.4GHz <-88dBm 802.11ax (MCS0) <-71dBm 802.11ax (MCS7), HT20 5.0GHz <-84dBm 802.11ax (MCS0) <-57dBm 802.11ax (MCS9), VHT80
Antennas	2.4 GHz 4 transmit and 4 receive 5 GHz 4 transmit and 4 receive

## ORDERING NUMBERS

1001422 TG6441B/CE - GENERIC FOR EMEA

**Note: WiFi Powers and channels may be limited by the country of operation.**