

ARRIS TG6441

DOCSIS 3.1 GATEWAY WITH WIFI 6 (802.11 AX)

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 WiFi 6 Dual-band radios, offers superior WiFi performance enabling reliable Ultra HD video over WiFi.

- 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 GbE Router
- 4x4 2.4 GHz 802.11ax
- 4x4 5 GHz 802.11ax
- 1 Voice Port
- Multi Processor Technology for enhanced application support
- Advanced Firmware support for IPV6, DS-Lite, and SoftGRE
- RDK-B Based



POWER SUPPLY

- 12 V DC
- 3.0 A
- 36 W

SPECIFICATIONS

PHYSICAL	
Operating Temperature	0 to 40°C
Operating Relative Humidity	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)	12 V DC
Input Current (max)	3.0 A
RF DOWNSTREAM	
Bonded Channels	Up to 32 SCQAM and/or 2 OFDM
Tuner Configuration	Full capture tuning range
Frequency Range	108-254 MHz-1218 MHz 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	5 MHz to 85 MHz or 5 MHz to 204 MHz
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)

VOICE	
Standards Supported	EuroPacketCable™ NCS (1.5/2.0) Network-based call signaling protocol (PKT-SP-EC-MGCP) RFC 3261 SIP RFC 2805 MGCP
Codecs Supported	G.711, G.722, G.729ab
FAX	T.38, G.711 Fax Passthrough
REN Capability	5 REN Total
Voice supplementary services	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
DTMF tone relay	RFC 2833
Pulse dialing	DTMF/pulse tones Pulse/DTMF tones conversion
RTP layer	RFC 1889 RFC 1890
Line Card Support	Flexible LC Templates
WIRELESS	
Frequency Range	2.4 GHz and 5 GHz
Transmit Power EIRP	+ 31.5 dBm (MCS0, 2.4 GHz, HT20) + 30.5 dBm (MCS7, 2.4 GHz, VE20) + 32.5 dBm (MCS0, 5 GHz, VHT20) + 29.5 dBm (MCS9, 5 GHz, VE80) + 28.0 dBm (MCS11, 5 GHz, VE160)
Spatial Streams	4 for 2.4 GHz, 4 for 5 GHz
Receive Levels	-94 dBm 802.11ax (MCS0, 2.4 GHz, VE20) -93 dBm 802.11ax (MCS0, 5 GHz, VE20)
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
MANAGEMENT	
SNMP	SNMP v1, SNMP v2, SNMP v3
Web-based user interface management and administration	User-friendly GUI via HTTP Command Line Interface (CLI)
CPE WAN Management Protocol (CWMP)	TR-069 TR-181
SECURITY	
Docsissecurity	BaselinePrivacyInterface Plus(BPI+)
SW security	Stateful Packet Inspection Firewall (SPIF) Customizable firewall security levels Intrusion detection and prevention Demilitarized Zone (DMZ) Multilevel access policy

ORDERING INFORMATION

MODEL	DESCRIPTION
1001422	TG6441B/CE,WIFI 6 VOICE GATEWAY,DOCSIS 3.1,2X2,EURODOCSIS 3.0,32X8,EURO ADAPTER