

ARRIS TG6442

DOCSIS 3.1 GATEWAY WITH WI-FI 6

FEATURES

- 2x2 OFDM and OFDMA DOCSIS® 3.1 channels
- 32x8 SCQAM DOCSIS ® 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
- 2 FXS Ports of carrier grade VoIP with HD voice
- Support USB 3.0 Host Port
- Multi Processor Technology for enhanced application support
- Advanced Firmware support for IPV6, DS-Lite, and SoftGRE
- RDK-B Based



PRODUCT SPECIFICATIONS

PHYSICAL

Operating Temperature °C	0 to 40
Operating Relative Humidity	5-95% (Non-condensing)
Storage Temperature °C	-40 to 70
Dimensions (H x W x D) in.	9.68 x 7.83 x 2.51
Weight (lbs.)	1.8
Diagnostic LED's (Front)	Phone, Internet, WPS, WI-FI, Power
Diagnostic LED's (Rear)	Ethernet Link/Speed
Front Switches	WPS



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PRODUCT SPECIFICATIONS

INTERFACES

RF Interface

1 External 'F' type connector

Data Interfaces (bridged)

4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)

Analog Telephony Interface

2 lines; RJ-11

USB Interface

USB 3.0 Powered Host Port

Input Voltage (nominal)

12V DC

Input Current (max)

3.5A

RF DOWNSTREAM

Bonded Channels

Up to 32 SCQAM and/or 2 OFDM

Tuner Configuration

Full capture tuning range

Frequency Range (MHz)

108-254MHz-1218MHz DOCSIS

Data Rate (Mbps Max.)

Up to 5 Gbps

RF Input Sensitivity Level (dBmV)

-15 to +15 (DOCSIS)

RF UPSTREAM

Bonded Channels

Up to 8 SCQAM or 2 OFDMA

Frequency Range (MHz)

5MHz to 85MHz or 5MHz to 204MHz

Data Rate (Mbps Max.)

Over 1 Gbps

RF Output Level (dBmV)

+65 dBmV (64 QAM, single upstream)

+57 dBmV (64 QAM, 4-8 upstreams)

+65 dBmV (16 QAM, single upstream)

+65 dBmV (OFDMA)



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PRODUCT SPECIFICATIONS

VOICE

Standards Supported

PacketCable™ 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 (CGN) 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



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PRODUCT SPECIFICATIONS

WIRELESS

Frequency Range

2.4GHz and 5 GHz

Transmit Power EIRP

+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)

Spatial Streams

4 for 2.4GHz, 4 for 5GHz

Receive Levels

-94dBm 802.11ax (MCS0, 2.4GHz, VE20)

-93dBm 802.11ax (MCS0, 5GHz, VE20)