The Askey TCG310-J is a 802.11ac Wave2 Dual-Band concurrent Embedded Media Terminal Adapter (EMTA) Cable Modem. It supports RDK-B that allows Multiple System Operators to implement their own RDK-B applications and features an optional MoCA 2.0 Channel Bonding to provide up to 1Gbps using the existing coaxial home network. This device is a CableLabs® DOCSIS® / EuroDOCSIS® 1.0/1.1/2.0/3.0/3.1 and PacketCable™ 1.0/1.5/2.0 compliant EMTA that provides Gigabit Internet access up to 5Gbps as well as high quality telephone voice and fax/modem services for residential, commercial and educational users on public and private networks, via an existing CATV infrastructure.

The TCG310-J provides high performance home networking, including 4 Gigabit ports and an 802.11b/g/n/ac Wave2 Dual-Band Concurrent access point that enables users to have multi-gigabit internet access.

This device has features that help Multiple System Operators reduce the Total Cost of Ownership – including an upstream diagnostics analyzer and a downstream spectrum analyzer that help in providing in-home cable signal problem isolation.
Features

- DOCSIS® 3.1 dual 192MHz OFDM plus 32 SC-QAM downstream channels
- DOCSIS® 3.1 dual 96MHz OFDMA plus 8 SC-QAM upstream channels
- Up to 5Gbps downstream and 2Gbps upstream speed
- 1.2GHz Full-band capture with downstream spectrum analyzer and upstream diagnostic analyzer
- Local Management – Intuitive webpage that indicates modem status, signal diagnostics and wireless spectrum information
- Enhanced device management tool with TR-69 IEEE 1905.1, SNMP and local webpage.
- WiFi Pass-point/Hotspot 2.0 and community WiFi
- Dual-band concurrent WiFi with latest 802.11ac wave 2 MU-MIMO features
- RDK-B Support

Physical Interfaces

- 4 x 10/100/1000BaseT RJ-45 Gigabit Ethernet
- 2 x IEEE802.11n/ac wireless
- To CATV network – Female F-Connector
- For phones – Two RJ-11 Connectors
- LEDs - Power, Online, Ethernet, WiFi, TEL1, TEL2

5G Wireless

- 802.11a/n/vac wave2
- Support 4Stream 80MHz channels or 2 stream 160MHz channels
- MU-MIMO support, up to 4 user groups
- Data rate up to 2.2Gbps
- Zero wait DFS and DSP-based Spectrum capture

2.4 G Wireless

- 802.11b/g/n compliant 3T3R
- Data rate up to 450Mbps

Networking

- Network Protocol
  - IP/TCP/UDP/ARP/ICMP/DHCP/FTP/TFTP/SMTP/HTTP/Syslog/Telnet server
  - Multiple Client Support 254 (router) 32 (Bridge)
  - Support Bridge and Router mode.
  - Virtual Network – VPN Tunneling (Passthrough)
  - VPN termination for remote access to home network
  - VPN (IPSec) pass-through
  - Service differentiation using port-based VLAN mapping (802.1Q)
  - Certificate – X.509 V3
  - Public Key Type RSA/Diffie-Hellman
  - Key Management – Kerberized IPSec/SMTP V1/V2c /V3

Call Control

- RTP layer – RFC1889/RFC1890
- PacketCable™ 1.0/1.5/2.0 and SIP Support

Voice & Fax

- Audio Codes – PCM A-law, PCM μ-law, G.723.1, G.729, G.729a, G.729e, G.728, G.726, Bv16 and Bv32.
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Echo cancellation G.165/G.168 up to 32ms
- Packet Tone – DTMF generation/Call
- Progress Generation/Custom Tone Generation
- Call discrimination
- Fax and Modem Detection
- FAX relay – T.38

Power

- Power adaptor
  - Input 100V~240VAC
  - Output 12VDC 4A
  - Power Consumption 48W

Operational Environment

- Operating Temperature – 0°C to 40°C
- Storage Temperature – -20°C to 70°C
- Humidity – 20% – 90% non-condensing
- MTBF Predication – > 100 000 hours @ 25°C

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