

Gigabit over Coax(GoC)

FTTH Extension to the MDU

Managed Switch and Endpoint



**BEC GoC AS608C
GoC CE201C**

The BEC Gigabit over Coax (GoC) solution provides full duplex, synchronous high-speed data up to 1Gbps, enabling service providers to deliver Gigabit Triple Play services to high density market segments such as Multiple Dwelling Units (MDU) and Multiple Tenant Units (MTU) over existing coaxial cables without the need of rewiring. The BEC GoC solution pairs the AS608C (Managed Switch) and CE201C (Endpoint) for a complete end-to-end system supporting delivery of high bandwidth internet services to a large number of customers without sacrificing reliability, control or manageability.

Optimized performance for high density markets, the BEC GoC is the best solution for deployments over existing coaxial wiring. It ensures interoperability over the medium with automatic detection and mitigation of legacy technologies such as HPNA and MOCA while providing 4x the data rate. Parameterized and prioritized mechanisms guarantee Quality of Service (QoS) with optimal network traffic utilization and bandwidth allocation for high bandwidth applications. A comprehensive set of features such as remote management, traffic monitoring, robust security, VLANs, advanced port management and optical fiber connectivity provide a scalable cost effective platform.

Provide Flexible Services

Service providers can enable service level agreements (SLAs), create tiered services plans or customize service packages for IPTV, VOD, VoIP or simply High speed Broadband Internet Access. Services providers will be able to differentiate among different classes of users—delivering a higher level of service to power users, while ensuring cost-effective service for lower bandwidth users. This enables service providers to generate incremental revenue, while enhancing subscriber satisfaction.

Simple Management and Deployment

The GoC AS608C (Managed Switch) contains an advanced management capability that can be remotely accessed by Web Browser and SNMP. The RS-232 console port provides easy local management control to troubleshoot and manage ports providing flexible network management and monitoring options. The GoC CE201C (Endpoint) enables service providers to quickly and effortlessly deploy instant gigabit triple-play services inside the MDUs (Multi Dwelling Units) over coaxial cable infrastructures. This fast plug-and-play installation and the easy remote troubleshooting management not only minimize truck rolls for service support but also eliminate the cost of professional installation.

Quality of Service (QoS) Control for Reliable Networking

The GoC AS608C (Managed Switch) contains a robust QoS features set such as Port-based, 802.1p priority and also IP TOS/DSCP to guarantee best performance, fast data delivery, reliable streams of HD video, smoother online-gaming and a flawless voice delivery experience across the home.

GoC AS608C (Managed Switch)

- Compliant with G.hn Standard
- 8 CATV Inputs / 8 Coax Data Ports
- Manual / Auto RF Notching capable
- Speed limitation for Uplink / Downlink
- 802.1q Tagged / Port based VLAN
- IGMP Snooping
- 802.1q Tagged / Port based
- QoS 802.1p / port / DiffServ
- SFP Digital Diagnostic Monitoring
- IPv4 / IPv6
- TR069, Local and Remote Management with multiple user levels, HTML GUI, SNMP v1/v2/v3
- SNMP Agent, Syslog Monitoring

GoC CE201C (Endpoint)

- Compliant with G.hn Standard
- 1 CATV Inputs / 1 Coax Data Ports
- Gigabit Ethernet LAN Interface
- Plug-and-Play, easy installation
- Remote Management via GoC AS608C (Managed Switch) capable

Ideal for:

- Multi-Dwelling Units
- Multi-Tenant Units
- Apartments
- Condos/Townhouses
- Office Buildings
- Hospitals



GoC 201C Endpoint
Back

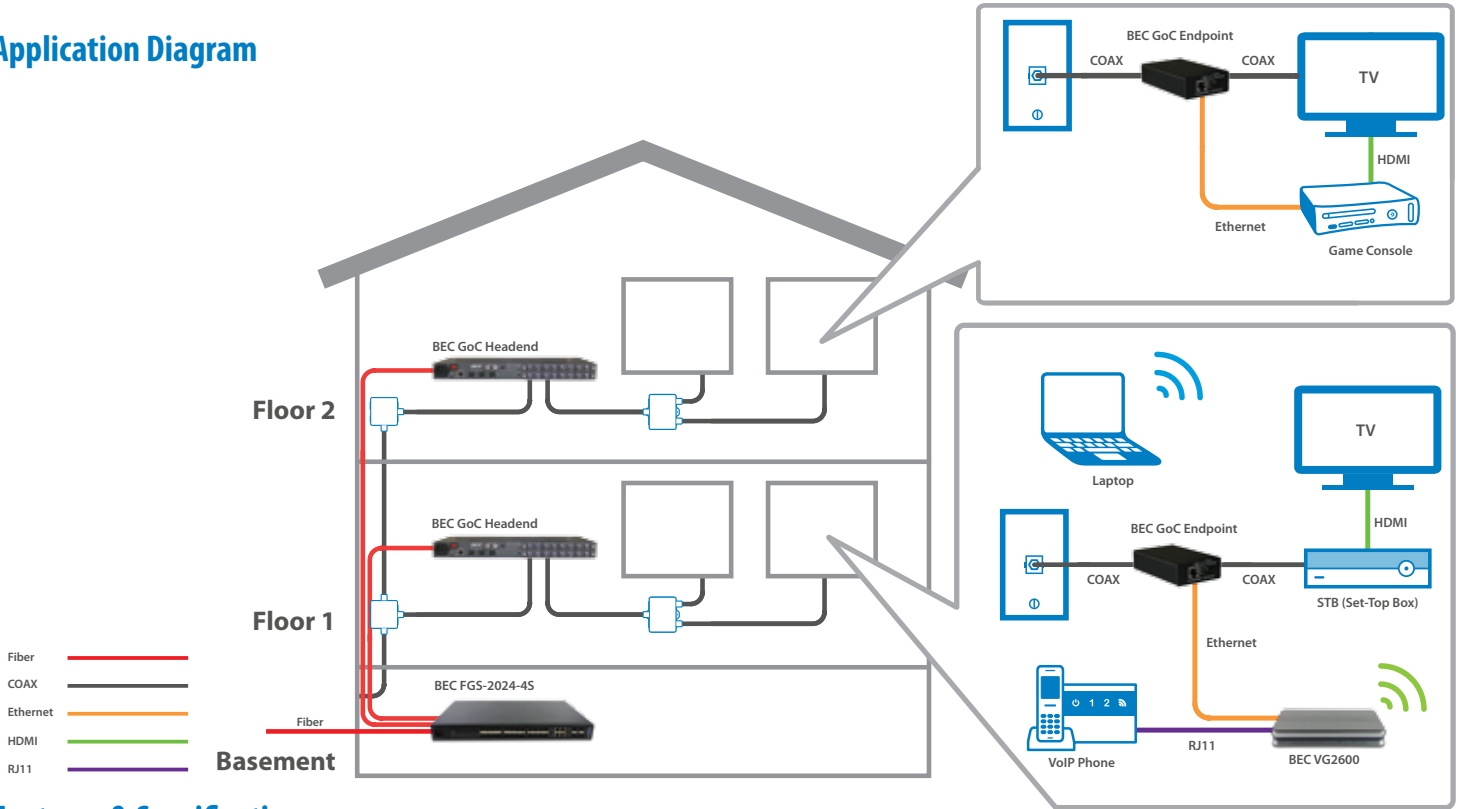


GoC 201C Endpoint
Front



GoC AS608C Managed Switch
Front

Application Diagram



Features & Specifications

BEC GoC AS608C (Managed Switch)

Standards

- ITU-T G.hn Standard Functionality
 - G.9960 System Architecture and PHY Layer
 - G.9961 Data Link Layer
 - G.9962 Management Plane
- IEEE 802.3z 1000Base-SX/LX/LHX
- IEEE 802.3x Flow Control
- IEEE 802.1p CoS Prioritization
- IEEE 802.1Q VLAN Tagging

Network Protocols and Feature

- IPv4 / IPv6 support
- Spanning/Rapid / Multiple Spanning protocols
- MVR
- Link loopback detection
- Port-based / 802.1q VLAN
- Management VLAN
- IGMP snooping & querier
- Port statistics / monitoring / mirroring

Quality of Service Control (QoS)

- SPQ / WRR / WFQ scheduling
- Network storm control
- Rate limiting
- 802.1p/ port / DSCP support

Security

- Port configuration & isolation
- DHCP snooping
- DHCP relay / option 82
- ARP Inspection & Limit

Management

- RS-232 local console
- Telnet CLI
- SNMP v1/ v2c / v3
- Web-based GUI
- Port mirroring
- Firmware upgradeable
- Configuration backup/restore
- Port configuration, status, statistics
- TR-069 Management (future release)

Hardware Specifications:

Physical Interface

- Power Socket & On/Off Switch
- System / Power / G.hn link status LEDs
- RS-232 Console Connector Port
- WAN Interface: 2 x 1GbE SFP ports for Uplink Aggregation
- LAN Interface: 1 x 1GbE SFP port for Monitoring
- 8 x Data & RF COM (5~85MHz) Connectors
- 8 x RF IN (CATV 104~1000MHz) Connectors (F Connector, RG-6 or RG-59 Coax Cable)

Physical Specifications

- Dimensions (W x H x D): 19" x 1.75" x 12" (408mm x 44mm x 301mm)
- Weight: 9.75lbs (4.43kg)

Physical Requirement

- Input: 110-240V AC (50-60 Hz)
- Power Consumption: < 16W

Operating Environment

- Operating temperature: 0 ~ 55°C
- Storage temperature: -25 ~ 70°C
- Humidity: 10 ~ 95% non-condensing

BEC GoC 201C (Endpoint)

Hardware Specifications:

Physical Interface

- 1 x 10/100/1000 Gigabit Ethernet Port
- 1 x Data & RF COM Connector
- 1 x RF IN (CATV 104~1000MHz) Connector (F Connector, RG-6 or RG-59 Coax Cable)
- Power/ Active Link / COM status LEDs

Physical Specifications

- Dimensions (W x H x D): 4.07" x 1.06" x 2.60" (103.4mm x 27mm x 66mm)
- Weight: 0.42lbs (0.19kg)

Physical Requirement

- Input: 5VDC 2A
- Power Consumption: < 3W

Operating Environment

- Operating temperature: 0 ~ 55°C
- Storage temperature: -25 ~ 70°C
- Humidity: 10 ~ 95% non-condensing