

BRS-S041 Lite-Managed FTTX CPE

LCSI

The BRS-S041 is a lite-managed Fast Ethernet Customer Premise Equipment (CPE) with 4 x 10/100TX + optional port at either 1 x 100FX or 1 x 10/100TX port. Applied to fiber to the home (FTTH) or Fiber to the building (FTTB), its hardware NAT with throughput close to 200Mbps provides business customer with higher speed application and consumer customer with triply application (data, voice - VoIP, video - IPTV). The unit supports IGMP snooping for IPTV service, VLANs to separate services, prioritization of data (depending on port, 802.1p and DSCP) to ensure quality of service QoS, and management / limiting bandwidth on the LAN ports (in both directions asymmetrically). Management unit via an intuitive Web interface or via SNMP commands. In summary, 802.3ah OAM, VLAN, IGMP, QOS, Enhanced Security, and Simple Deployment provide a flexible configuration to meet different need.



Highlights

- IGMP snooping
- Management VLAN
- OAM 802.3ah
- Wire speed

Key LAN Features

- BRS-S041 can be configured as NAT mode, Bridge mode (switch), or Mixed mode
- 4 port 10M/100M auto-detect Half/Full duplex switch ports with TX interfaces and option at either 1 port 100M FX or 1 port 10/100TX interface.
- Built-in 96K Byte SRAM buffer memory.
- Supports 2K MAC addresses entry tables with 4-ways associative hash algorithm
- Support IGMP V1, V2, and IGMP snooping for Multicast Control
- Support 32 hardware IGMP Table for IGMP V1/V2 (Multicast Table)
- Support PPPoE/PPP video packet accelerator. PPPoE as a shortcut for IGMP streaming
- Four queues per port for QOS.
- Supports priority features by Port-Based, 802.1p VLAN, Ethernet Type and IP Diffserv.
- Supports Store & Forward architecture and performs forwarding and filtering at non-blocking full wire speed.
- Supports 802.3x Flow Control pause packet for Full Duplex in case buffer is full.
- Supports Back Pressure function for Half Duplex operation in case buffer is full.
- Supports packet length up to 1522 (Default) / Maximum 1536 bytes .
- Scalable rate limit. Per port Ingress or Per Egress Queue bandwidth Control. (min. 15.6kbit/s, up to 100M)
- Broadcast/ Multicast Storm suppression.
- 802.1Q VLAN. Up to 16 groups
- Supports buffer allocation with 512 bytes per block
- Supports per port Single/Dual color mode with Power On auto diagnostic.
- Hardware base NAT/NAPT, 4K learning MAC addresses
- Supports self-learning bridge specified in IEEE 802.1d Transparent Bridging
- supports up to 4096 Transparent Bridging among 10/100Mb Ethernet interface

Key Router Features

- NAT (Network Address Translation) / NPAT (Port Address Translation) ALGs (Application Level Gateways): such as NetMeeting, MSN Messenger, FTP, Quick Time, Real Player, VPN pass-through with multiple sessions, SIP, etc.
- Port Forwarding: the users can setup multiple virtual servers (e.g., Web, FTP, Mail servers) on user's local network.
- Support Static routes
- DHCP Client/Relay/Server
- Time protocol can be used to get current time from network time server
- Support IP/Bridge QoS for prioritize the transmission of different traffic classes
- Support 802.1Q VLAN Tagging

Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3u 100BaseTX/100BaseFX
Features	Number of Ports: 4 x 10/100BaseT with RJ-45 Connector and 1 x 100BaseFX with Fiber Connector or 1 x 10/100TX
Data Transfer Rate	Ethernet: 10Mbps/Half-Duplex 20Mbps/Full-Duplex Fast Ethernet: 100Mbps/Half-Duplex 200Mbps/Full-Duplex
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP, up to 100 m 100BaseTX Cat. 5 UTP/STP, up to 100 m 100BaseFX: 50/125µm or 62.5/125µm Multi Mode SC-Type Fiber optic cable, up to 2 km 9/125µm or 10/125µm Single Mode Fiber optic cable
Led Indicators	Per Port: (TX): Link/Act, Speed, FDX/COL (FX): Link/Act, FDX/COL Per Unit: Power
Power Requirement	DC 9V/1A
Power Consumption	8 Watts (Max)
Dimensions	14.8 x 9.5 x 3 (L x W x H)
Weight	0.3 5kg
Operating Temperature	0 to 45°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class B, CE

Web Management Features

- Web UI management
- HTTP Web-based Management
- Port base VLAN optional
- Tag-base VLAN (IEEE 802.1q)
- IEEE 802.1p Priority Queuing (CoS)
- QoS
- LAN TOS/DSCP priority
- Fire Wall – LAN MAC filter
- Telnet (optional)
- Remote Reboot (optional)
- System IP configuration
- Default at NAT mode, or Convert Bridge mode to Switch, or Special mode to mix at NAT and Bridge mode
- HTTP firmware upgrade
- Port Mirror (optional)
- Bandwidth control
- IGMP v1/v2/v3 snooping
- IGMP fast leave
- IEEE802.3ah OAM
- IEEE802.3d spanning tree
- IEEE802.3x flow control
- Port speed config
- SNMP global config & Trap config
- SNMP V2c Agent

Order Information

Mode Name	Description
BRS-S041F	4 x ports 10/100M TX + 1x 100FX lite-managed FTTX CPE with built-in router and NAT ● Fiber at Multimode, Single Mode, or BIDI
BRS-S041T	4 x ports 10/100M TX + 1x 10/100TX lite-managed FTTX CPE w/NAT