



Shanghai Baud Data  
Communication Co., Ltd.

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BSR Routers

BDCOM BSR2900-10B  
Multi-Service Flow-Control Gateway

## BDCOM BSR2900-10B Multi-Service Flow-Control Gateway

### Product Overview

BSR2900-10B is a BDCOM-developed multi-service flow-control gateway oriented for small and medium-sized Internet scenarios such as small and medium-sized enterprises, budget hotels, business halls, chain branches.

BSR2900-10B builds on a low-power, MIPS-based multi-core embedded platform and adopts the integration of routing and switching. It supports NAT shared Internet access, multi-link load balancing, GBSC, Internet behavior management, and VPN networking, meeting the networking requirements of various enterprises.



BSR2900-10B

BSR2900-10B router is equipped with BDROS operating system, of which BDCOM has the independent intellectual property right. With BDCOM 25 years of R&D experience, BSR2900-10B router is your trusted choice.

### Product Characteristics

#### ➤ High-performance

BSR2900-10B is driven by the 64-bit multi-core processor with specialized ASIC high-speed switching engine and FPGA components, which enables the whole hardware platform to run on the high-speed Ethernet frame. This innovative design endows BSR2900-10B have ultra-high processing performance and efficiency, providing a powerful guarantee to handle large flow processing and improve stability.

#### ➤ Excellent Energy-saving Characteristics

BSR Router series adopts energy-saving chip with low power consumption. Compared with the other mainstream devices in the industry, power consumption of the BSR Router series is reduced by 15% to 20%, which saves the device maintenance cost and accords with the low-carbon idea.

#### ➤ Comprehensive Routing Protocols

BSR2900-10B supports rich layer-2 link protocols (such as HDLC, PPP, dot1q), static routing, dynamic routing (such as RIP, OSPF, BGP, BEIGRP), and policy-based routing. Its comprehensive routing protocols make it can be perfectly compatible with the devices of mainstream manufacturers in the industry. Besides, BSR2900-10B supports integration of multiple services such as routing, switching, safety and wireless, meeting the requirement of complicated network constructions.

#### ➤ **Rich Network Security Features**

BSR2900-10B supports selective ACL firewall filtration and NAT technology to protect the user network against potential threats from external networks; supports multiple VPN technologies such as IPSec/L2TP/PPTP/GRE, which can provide cost-effective solutions for the dedicated network, and greatly enhance the data security; supports multiple security technologies such as AAA, Radius, PAP/CHAP, and performs security authentications on the access users to further improve network security.

#### ➤ **Practical Traffic Management Policy**

BSR Router Series supports its self-developed flow control and service management policy (GBSC), which can better real-time detect the quality of the egress network and dynamically allocate bandwidth according to the currently available bandwidth. Meanwhile, GBSC can ensure the priority of key business and key users.

BSR Router Series supports varied queue scheduling technologies and traffic management policies including FIFO, PQ, CQ, CBWFQ, LLQ, WFQ, DSCP, IP Precedence, RTS, RSVP, CAR, which allows high efficiency of network bandwidth.

#### ➤ **Advanced Business Integration**

BSR2900-10B supports the MPLS VPN technology, which realizes the transparent Ethernet transmission service and the flexible enterprise interconnection. BSR2900-10B fully supports the IPv4/IPv6 dual stack protocols, ensuring the network smoothly upgrade to IPv6.

## Product Specification

<b>Product model</b>	BDCOM BSR2900-10B
<b>Management port</b>	1 MiniUSB
<b>Business port</b>	2 GE-SFP, 2 GE-TX 8 GE-LAN

<b>Extension port</b>	1 USB2.0 1 RST
<b>Forwarding performance</b>	≤3Mpps
<b>Access bandwidth</b>	1Gbps
<b>Concurrent host</b>	400-500
<b>Power supply</b>	220VAC
<b>Dimensions (WxDxH)</b>	300x200x44mm
<b>Operating temperature</b>	-10°C~50°C
<b>Operating humidity</b>	5%~95% (non-condensing)

## Software Specification

<b>Link Protocol</b>	PPP, MPPP, PPPoE, ARP
<b>Network Protocol</b>	TCP, UDP, ICMP
<b>Layer-2 switching</b>	802.3 Protocol, VLAN, QoS, Rate-Limit, STP, RSTP, storm-control broadcast
<b>IP service</b>	NAT, NAT, ALG, DHCP, DNS, DDNS, SNTP, PPPoE Srv
<b>Routing</b>	Static routing, RIP, OSPF, BGP, PBR
<b>Multi-path policy</b>	Equivalent routing, weighted routing, intelligent routing, remote detection, BFD
<b>QoS scheduling</b>	FIFO, PQ, CQ, WFQ, CBWFQ GBSC, L7Filter
<b>Security</b>	AAA, PAP, CHAP, MS-CHAP IP-ACL, MAC-ACL, IMP-Filter IPSec, EZVPN, L2TP, PPTP, GRE Flood-defense, ARP-defense Against Internet datagrams including Ping of Death, Tear-drop, WinNuke,

	PingSweep
<b>Multicast protocol</b>	IGMP, PIM-SM, PIM-DM
<b>IPv6</b>	IPv6 basic: ND, PMTU, ACL IPv6 transition: Dual-stack, Tunneling, NAT IPv6 routing: RIPng, OSPFv3, BGP4+
<b>Management</b>	CON, Telnet, SSH, SNMP, HTTP Ping, Trace-route, Syslog TFTP, FTP

## Ordering Information

Model	Description
BSR2900-10B	BSR2900-10B Multi-Service Flow Control Gateway (1 MiniUSB, 1 USB2.0, 2 GE-SFP, 2 GE-TX, 8 GE-LAN, AC power supply)

## For More Information

For more information about [BDCOM BSR2900-10B](#), please contact your local BDCOM account representative.

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