CISCO SYSTEMS

DATA SHEET

CISCO SMALL BUSINESS 100 SERIES SECURE BROADBAND ROUTERS

The Cisco® Small Business Series of secure broadband routers addresses the needs of small businesses, providing affordable, easy-to-use, and secure broadband access for data-only applications. Setup is simple with Web-based tools and remote management is possible with features in Cisco IOS® Software that allow value-added resellers or service providers to centrally manage the routers. The Cisco Small Business Series gives small business customers a new option from Cisco--- secure, managed Internet access at an affordable price.

PRODUCT OVERVIEW

Cisco Small Business Series secure broadband routers are fixed-configuration, small-office routers that support up to five users (Figure 1). They provide the required performance to run basic, secure services in small offices, including firewall and support for Multiprotocol Label Switching (MPLS)-based VPNs (Figure 2). In addition, an easy-to-use configuration tool, Cisco Router and Security Device Manager (SDM), allows nontechnical users to quickly set up the router and its firewall configuration (Figure 3), while remote management capabilities in Cisco IOS Software facilitate easy deployment and centralized management for service providers or value-added resellers.

The Cisco Small Business 100 Series of secure broadband routers provides:

- An affordable Cisco router for data-only applications in small businesses offices with up to five users
- Asymmetric DSL (ADSL), ADSL over ISDN, or an Ethernet WAN interface with a 4-port 10/100 switch
- Secure connectivity with integrated stateful firewall
- Simple setup and remote management capabilities of Cisco IOS Software

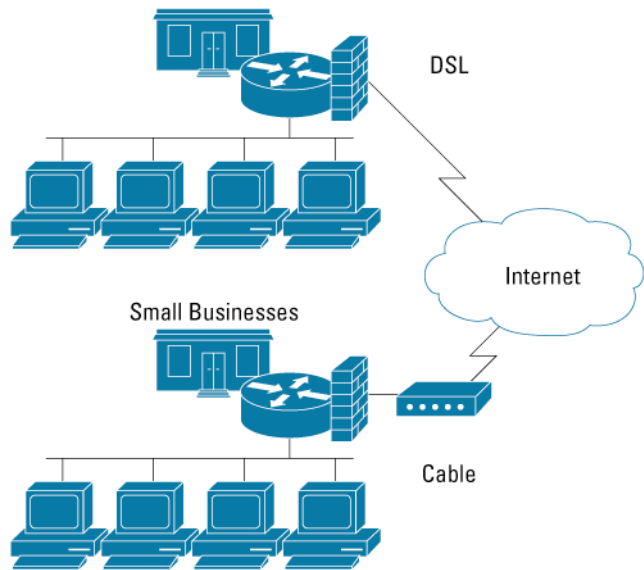**Figure 1.** Cisco Small Business 100 Series Router

Table 1 lists the routers that currently make up the Cisco Small Business 100 Series.

Table 1. Cisco Small Business 100 Series Models

Model	WAN Interface	LAN Interface	ISDN (S/T) Port for Out-of-Band Management
Cisco Small Business 101	Ethernet	4-port 10/100 switch	---
Cisco Small Business 106	ADSL over ISDN	4-port 10/100 switch	Yes
Cisco Small Business 107	ADSL	4-port 10/100 switch	---

Figure 2. Small Business Deployments

Features and Benefits of the Cisco Small Business 100 Series

Table 2 lists the features and benefits that the Cisco Small Business 100 Series provides.

**Table 2.** Features and Benefits of the Cisco Small Business 100 Series

Feature	Benefit
Cisco Router Running Cisco IOS Software	Provides a proven, reliable network operating system used by companies of all sizes
4-Port 10/100 Switch	Allows multiple devices to be connected in a small office
Integrated Stateful Firewall	Offers a business-class firewall solution for secure Internet access
Web-Based Setup Tool	Cisco SDM allows nontechnical users to quickly set up the router and firewall
Remote Management	Allows value-added resellers or service providers to centrally manage the device, providing better support for small business customers

APPLICATIONS

The Cisco Small Business 100 Series is best suited for deployment in small businesses, recommended for up to five users per site connecting to the Internet, and for multiple-site connectivity through MPLS-based VPNs. These types of offices can include small business professionals such as insurance agents, lawyer offices, or consultants that use data-driven applications. The integrated firewall provides essential security when connecting to the Internet. For simple multiple-site connectivity, users can take advantage of MPLS-based VPN networks.

The Cisco Small Business 100 Series is ideal for managed services---service providers and value-added resellers can use the centralized management features with the router as a platform to offer differentiated security services to small business customers.

Figure 3. Cisco SDM
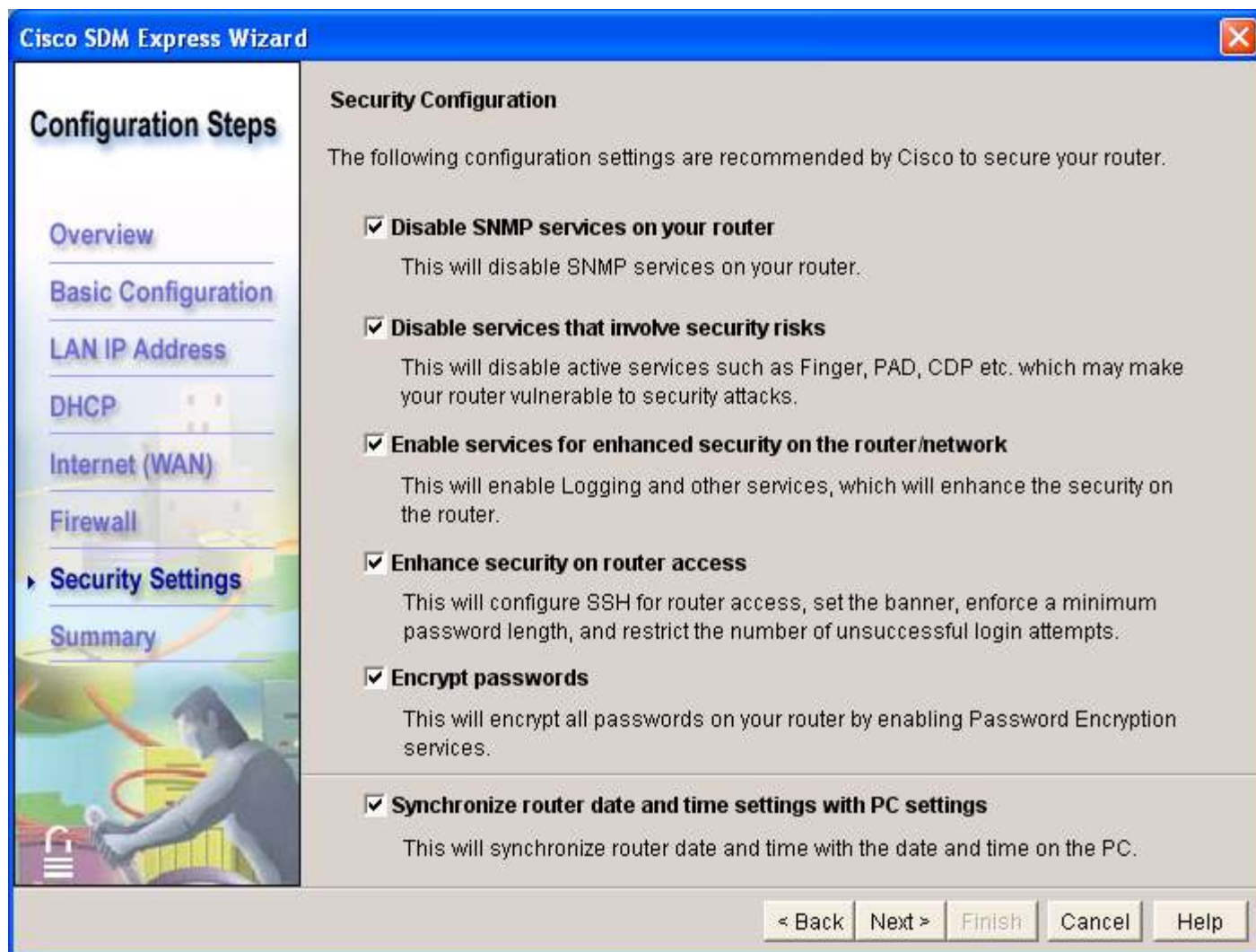
SUMMARY

The Cisco Small Business 100 Series provides secure broadband access to small businesses that need affordable, reliable, managed network connectivity at an affordable price. Service providers and value-added resellers can take advantage of a solution that can be easily set up at a remote site and then be remotely managed to reduce ongoing operational costs.

PRODUCT SPECIFICATIONS

Tables 3 and 4 list software and hardware features of Cisco Small Business 100 Series routers.

Table 3.   Software Features

Software Features	
Routing Protocols and General Router Features	• Routing Information Protocol (RIPv1 and RIPv2) • Cisco Express Forwarding (CEF) • Network Address Translation (NAT) • Port Address Translation (PAT) • RFC 1483/2684 • Point-to-Point Protocol over ATM (PPPoA) • PPP over Ethernet (PPPoE) • 802.1d Transparent, Learning Bridge Spanning Tree • Dynamic Host Control Protocol (DHCP) server/relay/client • RADIUS/TACACS+ named method lists for authentication, authorization, and accounting (AAA) • Address Resolution Protocol (ARP) • Challenge Handshake Authentication Protocol (CHAP), MS-CHAPv1, MS-CHAPv2, PAP • Cisco Discovery Protocol (CDP) • CDP over ATM • Dynamic DNS • Access control lists (ACLs) • Dying Gasp (Cisco Small Business 106/107 only)
Number of Users Supported	Up to 5 recommended
ATM Features (DSL models only)	• ATM Multilink PPP support on multiple virtual circuits • ATM subinterface MIB, traps • ATM Unspecified Bit Rate (UBR), Constant Bit Rate (CBR), Variable Bit Rate/non-real-time (VBR-nrt) • ATM Operation, Administration, and Maintenance (OAM) Support for F5 Continuity Check; segment and end-to-end loopback; and Interim Local Management Interface (ILMI) support • 4 permanent virtual circuits (PVCs)
Security Features	• Stateful Inspection Firewall (context-based access control) • IP Security (IPSec) pass-through • Point-to-Point Tunneling Protocol (PPTP) pass-through • Layer 2 Tunneling Protocol (L2TP) pass-through • Lock and key • Telnet, Simple Network Management Protocol (SNMP), CLI, HTTP management • Secure Shell (SSH) v1 and v2 • Port to application mapping
Quality of Service (QoS) Features	• Weighted Fair Queuing (WFQ) • TX ring adjustment • Per-VC queuing • Per-VC traffic shaping

Software Features	
Deployment and Network Management Features	• Cisco SDM • Cisco Configuration Express • Cisco CNS Agent for IE2100 • DSL firmware update from Flash • Telnet, SNMP, CLI, HTTP management • Out-of-band management via external modem ISDN; S/T port for out-of-band management (SB 106 only)

Table 4. Hardware Specifications

Hardware Specifications	
Default DRAM	64 MB
Maximum DRAM	64 MB
Default Flash	12 MB
Maximum Flash	12 MB
WAN	• Cisco Small Business 101: 10 Mbps Ethernet • Cisco Small Business 106: ADSL over ISDN • Cisco Small Business 107: ADSL over POTS
LAN Switch	4-port 10/100 with autosensing MDI/MDX for autocrossover
Console Port	RJ-45
ISDN Basic Rate Interface (BRI) S/T (Cisco 106 only)	ISDN BRI S/T port that can be configured for ISDN out-of-band management
LEDs	Status LEDs for WAN (ADSL, Ethernet), LAN, and system
External Power Supply	Universal 100 to 240 VAC
DSL Specifications	ST-Micro DynaMiTe (formerly Alcatel Micro Electronics) ADSL Chipset (20150) • T1.413ANSI ADSL DMT issue 2 • G.992.1ITU G.DMT support • G.992.2ITU G.Lite support • The chipset does not provide interoperability with carrierless amplitude modulation/phase modulation (CAP)-based ADSL lines
Physical Dimensions and Weight	• Dimensions (H x W x D): 2.0 x 9.7 x 8.5 in. (5.1 x 24.6 x 21.6 cm) • Weight: 1.48/1.5 lb (0.67/0.68 kg)
Power	• AC input voltage: 100 to 250 VAC, 50 to 60 Hz • Power consumption: 6 to 10W (idle---maximum consumption) • Power supply rating: 15

Hardware Specifications	
Approvals and Compliance	
Safety	• UL 1950/ CSA 950-95, Third Edition • IEC 950: Second Edition with Amendments 1, 2, 3, and4 • EN60950:1992 with Amendments 1, 2, 3, and 4 • AS/NZS 3260: 1996 with Amendments 1, 2, 3, and 4 • TS 001 with Amendment 1
Telecom	• ACTA TIA 968-A • IC-CS-03 • ETSI TS 101 388 • ETSI 300-047 • CTR3 • ITU-I.430 • ITU-G.921 • ITU-G.931 • ITU-G.992.1 • JATE Technical conditions • TS-031 • S043 • C559 • IP1149 • PTC-270 • PTC-272 • YD/T993 • GB-9254 • GB4983 • S-ISDN-01/1 • IR-1/TCP-01/01 • I DCA 18 02 • IDA TS ADSL1 • IDA RS ADSL2 • IDA TS ISDN1
EMC	• AS/NRZ 3548:1992 Class B • CFR 47 Part 15 Class B • EN60555-2 Class B • EN55022 Class B • VCCI Class II • ICES-003, Issue 2, Class B, April 1997S • IEC 1000-3-2 • IEC 1000-4-2 (EN61000-4-2) • IEC 1000-4-3 (ENV50140) • IEC 1000-4-4 (EN61000-4-4)

Hardware Specifications	
Environmental Operating Range	• Nonoperating temperature: –4 to 149°F (–20 to 65°C) • Nonoperating humidity: 5 to 95 percent relative humidity (noncondensing) • Nonoperating altitude: 0 to 15,000 ft (0 to 4570m) • Operating temperature: 32 to 104°F (0 to 40°C) • Operating humidity: 10 to 85 percent relative humidity (noncondensing) • Operating altitude: 0 to 10,000 ft (0 to 3000m)

ORDERING INFORMATION

Table 5 lists ordering information for the Cisco Small Business 100 Series. To place an order, visit the Cisco Ordering Home Page.

Table 5. Ordering Information

Part Number	Product Name
CISCOSB101-K9	Cisco Small Business 101 Secure Broadband Router
CISCOSB106-K9	Cisco Small Business 106 Secure ADSL over ISDN Router
CISCOSB107-K9	Cisco Small Business 107 Secure ADSL Router

TO DOWNLOAD SOFTWARE

To download Cisco IOS Software, visit the Cisco Software Center.

To download the latest Cisco SDM software, visit http://www.cisco.com/go/sdm.

SERVICE AND SUPPORT

Cisco offers a wide range of services programs to accelerate customer success. These innovative services programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco services help you to protect your network investment, optimize network operations, and prepare your network for new applications to extend network intelligence and the power of your business. For more information about Cisco services, see Cisco Technical Support Services or Cisco Advanced Services.

FOR MORE INFORMATION

For more information about the Cisco Small Business 100 Series secure broadband routers, contact your local account representative or visit http://www.cisco.com/go/sb100.

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