CISCO ROUTER PRODUCT UPDATE

ISR 1800/800 series
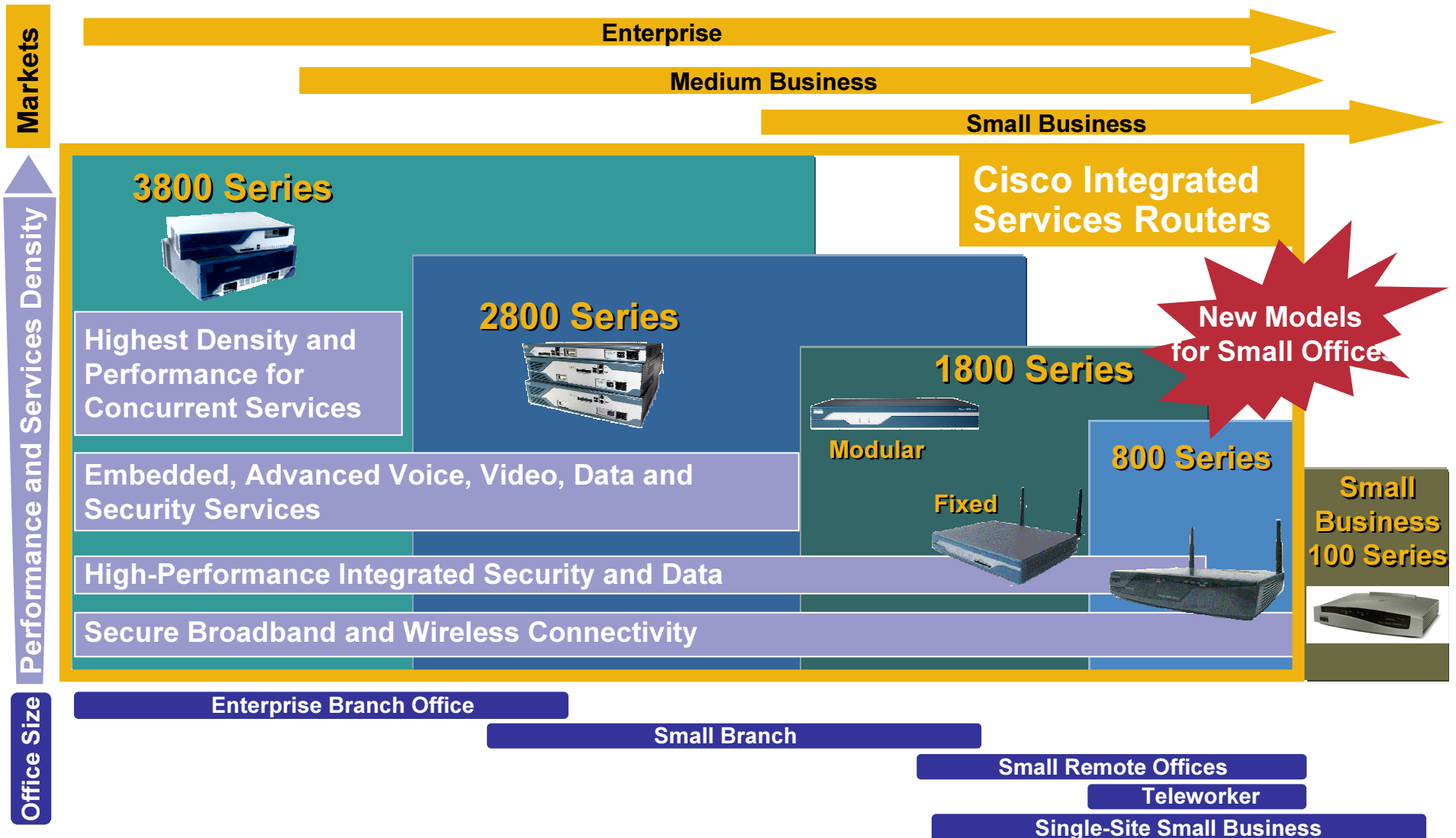
SB100 series

Cisco IOS Router Managed CPE Portfolio

Markets

Enterprise

Medium Business

Small Business

Performance and Services Density

Cisco Integrated Services Routers

3800 Series

New Models for Small Offices

2800 Series

Highest Density and Performance for Concurrent Services

1800 Series

Modular

Embedded, Advanced Voice, Video, Data and Security Services

Fixed

800 Series

Small Business 100 Series

High-Performance Integrated Security and Data

Secure Broadband and Wireless Connectivity

Office Size

Enterprise Branch Office

Small Branch

Small Remote Offices

Teleworker

Single-Site Small Business

Key Solutions for the Small Office

Cisco Integrated Services Routers

Small Brach Office

Teleworker

Small Business

Increased Platform Performance to Run Concurrent Services

Business Class Broadband

- 10/100 MB WAN for Broadband Modems or Metro Ethernet

- ADSL over POTS & ADSL over ISDN

- ADSL2+

- G.SHDSL 2 & 4 Wire

Security

- Cisco IOS ISR Secure CPE Threat Defense Networks
  - IOS Firewall
  - IOS IPS
  - Network Foundation Protection

- Cisco AES/3DES VPN solutions beyond site to site VPN with DMVPN & Cisco Easy VPN

Wireless

- Secure WLAN in a single Box Solution

- Lower total solution cost

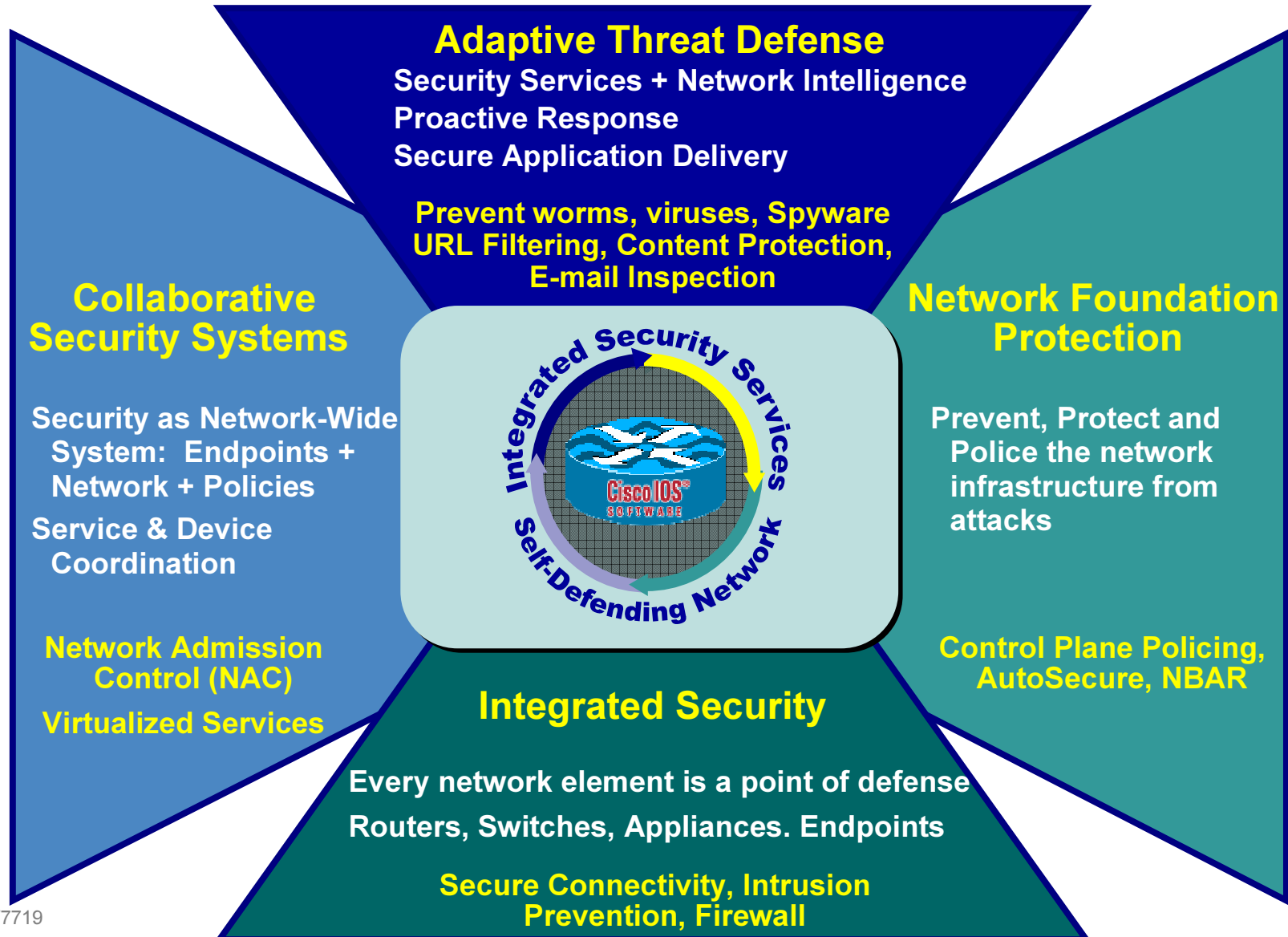- Simplified deployment & ongoing management

Voice

- Remote phone extensions with IP phones for Teleworkers up to integrated distributed voice in the Small Branch Office

- QoS, high speed encryption, PoE for IP Phones

- SRST & CME for the Small Branch office with Cisco modular ISR routers

Ease of Deployment & Lower Cost of Ownership

Cisco Integrated Services Routers
Engineered to Deliver on the Cisco SDN Strategy

Adaptive Threat Defense

Security Services + Network Intelligence

Proactive Response

Secure Application Delivery

Prevent worms, viruses, Spyware
URL Filtering, Content Protection,
E-mail Inspection

Collaborative Security Systems

Security as Network-Wide System: Endpoints + Network + Policies

Service & Device Coordination

Network Admission Control (NAC)

Virtualized Services

Network Foundation Protection

Prevent, Protect and Police the network infrastructure from attacks

Control Plane Policing, AutoSecure, NBAR

Integrated Security Services

Self-Defending Network

Cisco IOS® SOFTWARE

Integrated Security

Every network element is a point of defense

Routers, Switches, Appliances. Endpoints

Secure Connectivity, Intrusion Prevention, Firewall

New Cisco 1800 Series Fixed Configuration Integrated Services Routers

- Secure, concurrent services for broadband access in branch and small offices

- Advanced security including:

    Stateful Inspection Firewall

    IPSec VPNs (3DES or AES)

    Intrusion Prevention System (IPS)

    Antivirus support through Network Admission Control (NAC) and enforcement of secure access policies

    Cisco Easy VPN & DMVPN with Autosecure

Cisco 1811 & 1811W shown

- Integrated ISDN, analog modem, or Ethernet backup port for redundant WAN links and load balancing

- Secure WLAN for simultaneous 802.11a and 802.1b/g with use of multiple replaceable antennas

- 8-port 10/100 managed switch with 802.1q VLAN support & inline power

- Easy set up and deployment and remote management capabilities through Web-based tools and Cisco IOS Software

Cisco 1800 Series Fixed Configuration Integrated Services Routers (Cisco 1811w shown)

Antenna Options

Dual, Replaceable Antennas

Internal Power Supply

8-Port 10/100 Switch with optional POE

Security Cable Lock

Memory
Flash
Default: 32 MB
Max: 128 MB

DRAM
Default: 128 MB
Max: 384 MB

ISDN S/T (1801, 1802, 1803, 1812) or Analog Modem (1811) for Backup and Out-of-Band Management

Cisco 1811 Shown

PoE Power Input

DSL WAN Port:
• ADSL (1801)
• ADSL over ISDN (1802)
• G.SHDSL (1803)

USB 2.0 Ports for Security Tokens (1811/1812)

Dual 10/100 MB FE WAN Ports (1811, 1812)

Console Port

AUX Port

Model Summary—Cisco 1800 Series Fixed

Feature	Cisco 1801	Cisco 1802	Cisco 1803	Cisco 1811	Cisco 1812
DSL WAN Port	ADSL over POTS	ADSL over ISDN	G.SHDSL (4-wire)	No	No
10/100 FE WAN Ports	1	1	1	2	2
8-Port Managed Switch	Yes	Yes	Yes	Yes	Yes
VPN Hardware encryption	By default	By default	By default	By default	By default
Dial Backup	ISDN BRI	ISDN BRI	ISDN BRI	V.92 Modem	ISDN BRI
USB 2.0 Ports	0	0	0	2	2
802.11a/b/g Wireless Model	Yes	Yes	Yes	Yes	Yes
VLAN and DMZ	Yes	Yes	Yes	Yes	Yes
Optional PoE	Yes External adapter	Yes External adapter	Yes External adapter	Yes External adapter	Yes External adapter

Note: All ADSL models are ADSL2+ Ready

LW7719

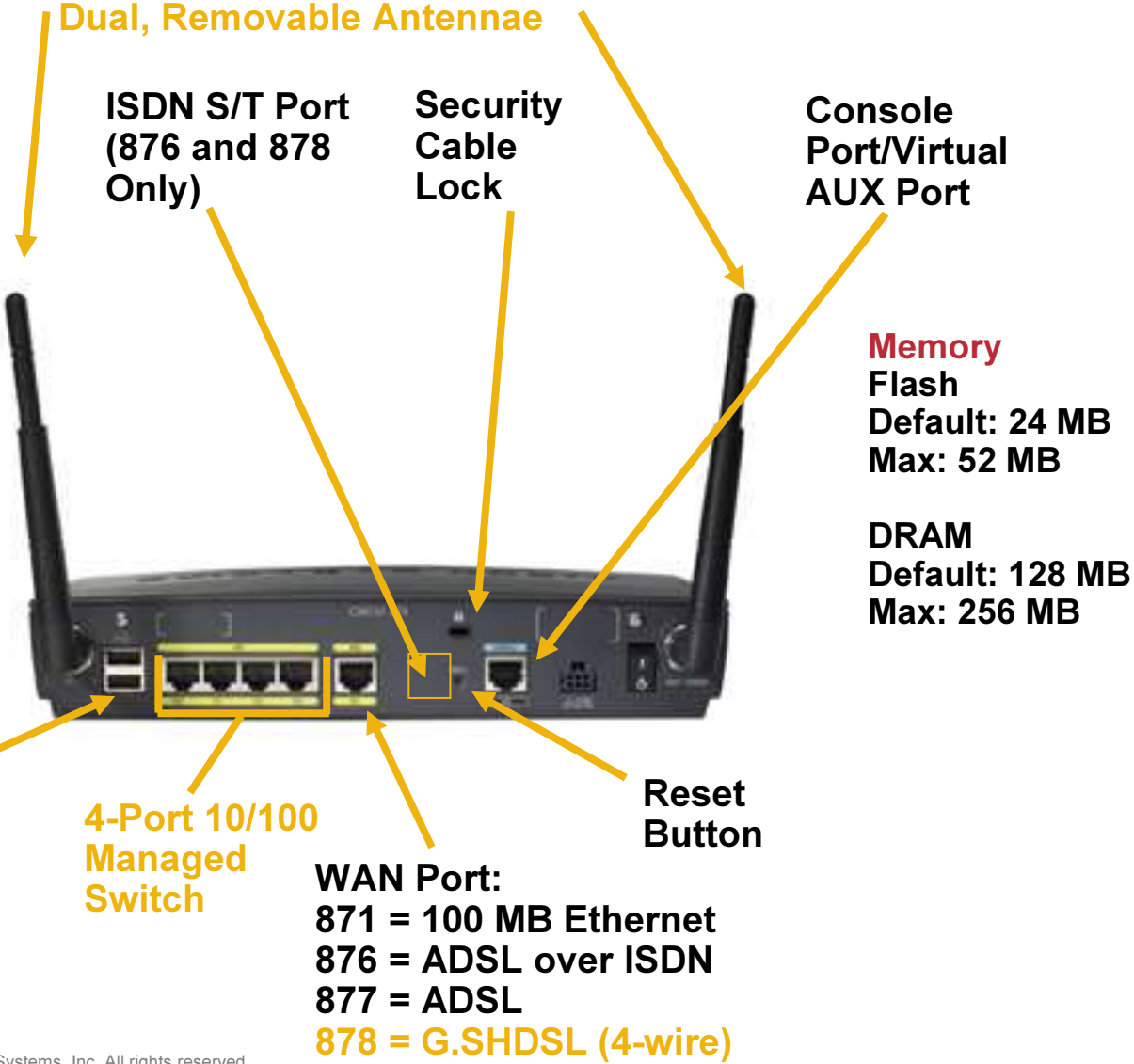# New Cisco 800 Series Integrated Services Routers for Small Offices

- **High performance for broadband access in small offices**

- **Advanced security including:**

    Stateful inspection firewall

    IPSec VPNs (3DES or AES)

    Intrusion Prevention System (IPS)

    Antivirus support through Network Admission Control (NAC) and enforcement of secure access policies

    Cisco Easy VPN & DMVPN with Autosecure

- **Secure WLAN 802.11b/g option with use of multiple, replaceable antennas**

- **4-port 10/100 managed switch with 802.1q VLAN support & inline power using mid-span module**

- **Easy set up and deployment and remote management capabilities through Web-based tools and Cisco IOS Software**

Cisco 870 Series Fixed Configuration Integrated Services Routers

Antenna Options

Dual, Removable Antennae

ISDN S/T Port (876 and 878 Only)

Security Cable Lock

Console Port/Virtual AUX Port

Memory
Flash
Default: 24 MB
Max: 52 MB

DRAM
Default: 128 MB
Max: 256 MB

USB 2.0 Ports for Security Tokens (871 Only)

4-Port 10/100 Managed Switch

WAN Port:
871 = 100 MB Ethernet
876 = ADSL over ISDN
877 = ADSL
878 = G.SHDSL (4-wire)

Reset Button

Model Summary—Cisco 870 Series

	Ethernet Routers	DSL Routers		
	Cisco 871	Cisco 877	Cisco 876	Cisco 878
WAN Interface	FE	ADSL over POTS	ADSL over ISDN	G.SHDSL (4-wire)
Wireless 802.11b/g	Yes	Yes	Yes	Yes
ISDN S/T (ISDN BackUp)	No	No	Yes	No
Dial Backup with External Modem	Yes	Yes	Yes	Yes
VPN Hardware Assist	Yes	Yes	Yes	Yes
USB Ports (Security Tokens)	2	No	No	No
4-Port Managed Switch	Yes	Yes	Yes	Yes
DMZ Ports	Yes	Yes	Yes	Yes
Optional In-Line Power (External Adapter)	Yes	Yes	Yes	Yes

Note: All ADSL models are ADSL2+ Ready

LW7719

Cisco 850 Series Fixed Configuration Integrated Services Routers

Reset
Button

Security
Cable Lock

Console
Port/Virtual AUX
Port

Memory
Flash
Default: 24 MB
Max: 24 MB

DRAM
Default: 64 MB
Max: 64 MB

4-Port 10/100
Switch

WAN Port:
851 = 10 MB Ethernet
857 = ADSL

Single Fixed
Antenna
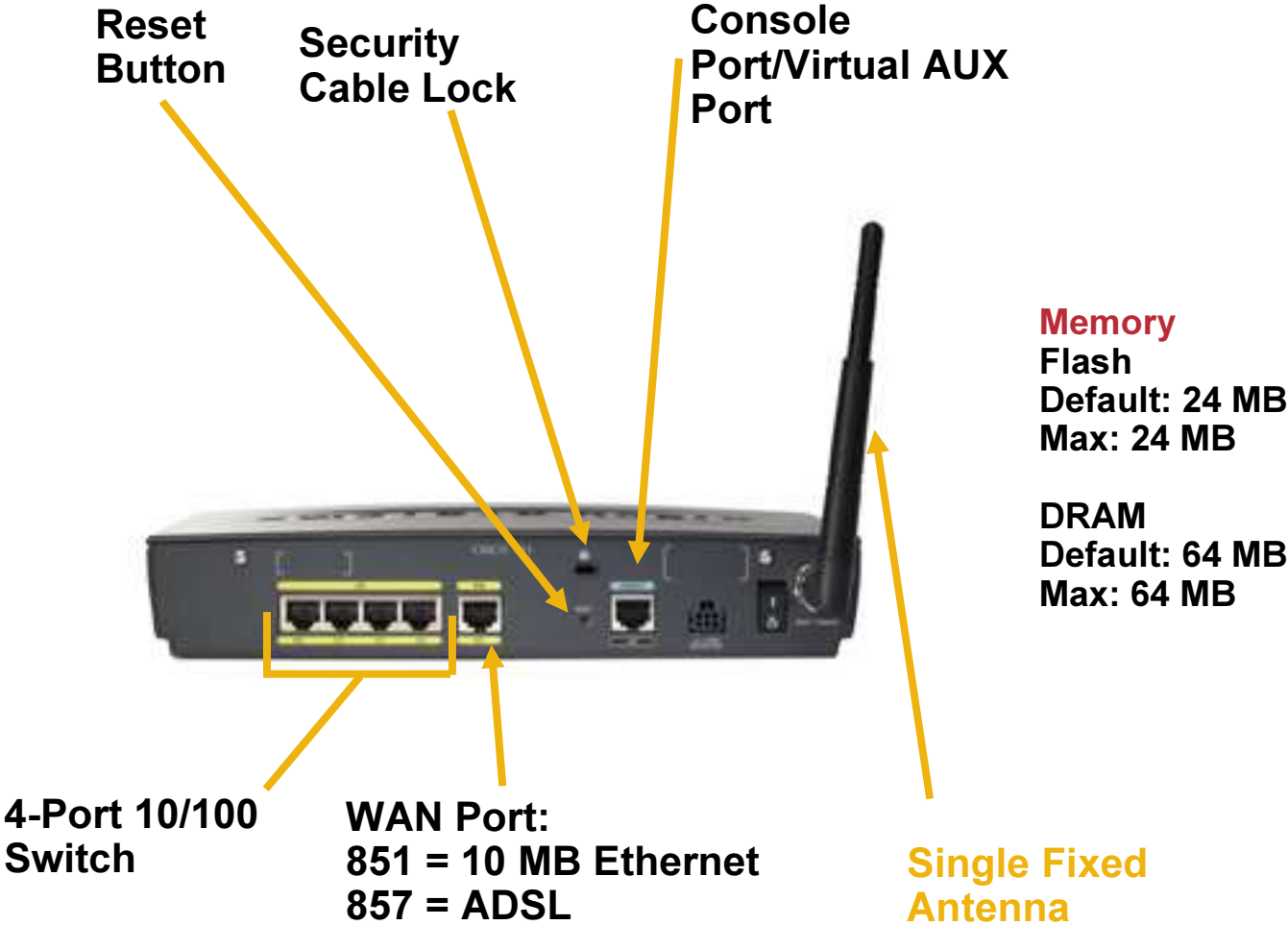
Model Summary—Cisco 850 Series

	Ethernet Routers	DSL Routers
	Cisco 851	**Cisco 857**
WAN Interface	FE	ADSL/POTS
Wireless 802.11b/g	Yes	Yes
ISDN S/T (ISDN Backup)	No	No
Out-of-band mgmt via ext. modem	Yes	Yes
Dial Backup with External Modem	No	No
VPN Hardware Assist	Yes	Yes
USB Ports (Security Tokens)	No	No
4-Port Switch	Yes	Yes
VLAN	No	No

ISR Fixed Versions - Security

Security Feature	1800 (fixed)	870	850
Cisco IOS Firewall	✓	✓	✓
Hardware VPN Encryption	✓	✓	✓
VPN Advanced Features DMVPN, EasyVPN, Remote Access	✓	✓	No
Cisco IOS IPS	✓	✓	No
NAC	✓	✓	No
802.1x	✓	✓	No
USB Port	2 (1811,1812)	2 (871)	0
Power-over-Ethernet	External Adapter	External POE	No

Miercom 1812 W and SDM 2.1.1 Test Findings
Redefining Integrated Services and Ease of Use

Verified concurrent
secure, broadband wireless services

"In our tests, the Cisco 1812 Wireless router ran multiple applications, including Network Admission Control, Firewall, and Intrusion Prevention, as well as NAT, QoS, SLA monitoring, and 3DES encryption over a backup link with DMVPN - all concurrent with routing traffic.

We figure that the latest version 2.1.1 of the SDM configuration and management application reduces in half the technical expertise required to properly configure and deploy the router with these services."

Ed Mier
President, Mier Communications Inc.

View the Test Report at:

www.miercom.com
* after external launch

Cisco Security Device Manager (SDM) *Combining Ease Of Use and Application Intelligence*

Intuitive, web-based device management tool embedded in Cisco ISRs

- **New Express Set Up feature**

- **Supports WLAN configurations & new ISRs**

- **Intelligent wizards: Auto-detect misconfiguration and proposes fixes**

- **Quick deployment: 1-Step Router lockdown (firewall), and VPN wizard (Site-to-site, easy VPN)**

- **Security audit: ICSA, TAC recommended security configuration**

- **Run from the Router (no software install needed)**

- **Run from a PC (ease of always using the most up-to-date version)**

LW7719

15
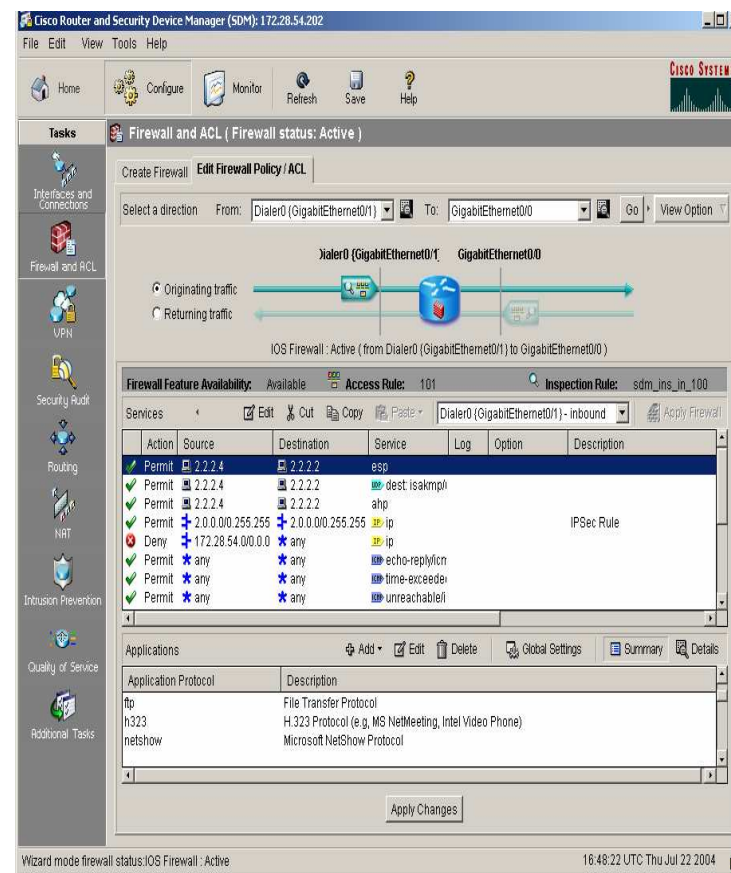
ISR Fixed-Configuration Routers
Product Comparison & Pricing

Price

Base List: $1295+
Wireless: +$300

Cisco 1800 Series

Base List: $649+
Wireless:+$200

Cisco 870 Series

Base List: $399+
Wireless: +$100

Cisco 850 Series

- Broadband performance
- Stateful inspection firewall, IPSec 3DES or AES VPNs, IPS, Antivirus/NAC
- Integrated ISDN, analog modem, or Ethernet backup port for redundant WAN links and load balancing
- 802.11a and 802.11b/g with multiple replaceable antennas
- 8-port 10/100 managed switch, internal power supply, PoE
- Up to 8 VLANs
- Cisco SDM & IOS for set up & management

- Stateful inspection firewall, IPSec 3DES or AES VPNs, IPS, Antivirus/NAC
- 802.11b/g with multiple replaceable antennas
- Advanced QoS features
- Software & Memory Upgrades
- 4-port 10/100 managed switch
- Up to 3 VLANs, external POE
- Cisco SDM & IOS for set up & management
- High Performance

- Broadband Performance
- Stateful inspection firewall & IPSec 3DES/AES VPNs
- 4-port 10/100 switch
- 802.11b/g with single fixed antenna
- Cisco SDM & IOS for set up & management

Value (Feature, Performance)

LW7719 16

Pricing examples

Model	Description	GPL Price (USD)
CISCO1801	ADSL/POTS router w/IOS IP Broadband	1,000
CISCO1801/K9	ADSL/POTS Router with Firewall/IDS and IPSEC 3DES	1,495
CISCO1803/K9	G.SHDSL Router with Firewall/IDS and IPSEC	1,695
CISCO1801W-AG-E/K9	ADSL/POTS Router with 802.11a+g ETSI Compliant and Security	1,795
CISCO1803W-AG-E/K9	G.SHDSL Router with 802.11a+g ETSI Compliant and Security	1,995

CISCO1701/K9   1,495

Pricing examples

Model	Description	GPL Price (USD)
CISCO857-K9	Cisco 857 ADSL router	449
CISCO857-W-G-E-K9	Cisco 857 ADSL Wireless Router	549
CISCO877-K9	Cisco 877 ADSL Router	649
CISCO877W-G-E-K9	Cisco 877 ADSL Wireless Router	849
CISCO878-K9	Cisco 878 G.SHDSL Router	749
CISCO878W-G-E-K9	Cisco 878 G.SHDSL Wireless Router	949

CISCO837-K9   649

Product Availability

	Orderability	FCS
Cisco 1800 Fixed (all)	**May 2nd**	**May 23rd**
Cisco 850/870	**May 20th**	**June 3rd**

New Modules for Modular ISR
## Cisco 1800 modular/2800/3800

New Cisco HWIC-AP 802.11 Access Point Module

- Integrated secure 802.11 access point functionality for Cisco 1841, 2800, and 3800 modular ISRs
- Single-band 802.11b/g or dual-band 802.11a/b/g radios
- Support for various external dipole or dual-mode Antennas with RP/TNC connectors
- Extensive WLAN security capabilities including:

    -Support for Wi-Fi protected access (WPA) enterprise mode and personal mode

    -Wired Equivalent Privacy (WEP), Temporal Key Integrity Protocol (TKIP), key management

    -802.1X

    -Cisco LEAP/Extensible Authentication Protocol (EAP-TLS)

    -Multiple VLAN (Virtual LAN) support

    -Authentication, authorization, and accounting (AAA)/RADIUS & Network Admission Control (NAC)

Next Generation EtherSwitch NME for Modular Routers

April/May 05
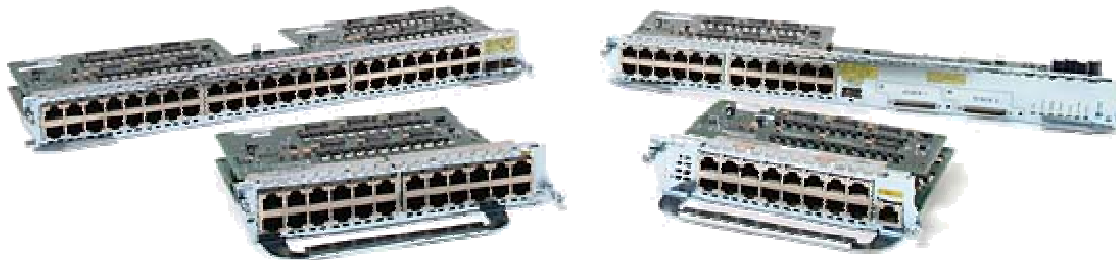
- **New generation EtherSwitch modules**

- **Full feature parity with Catalyst 3750**

- **Services module – will run it's own IOS image**
- **SW images are:**

  - **Router side - 12.3(14)T**
  - **Switch side - 12.2(25)EZ DSBU**

- **16, 24, 48 Ports , 10/100 Models Available**

- **Unique new 24 Port + 2 StackWise interfaces also offering HA Stack Router Integration**

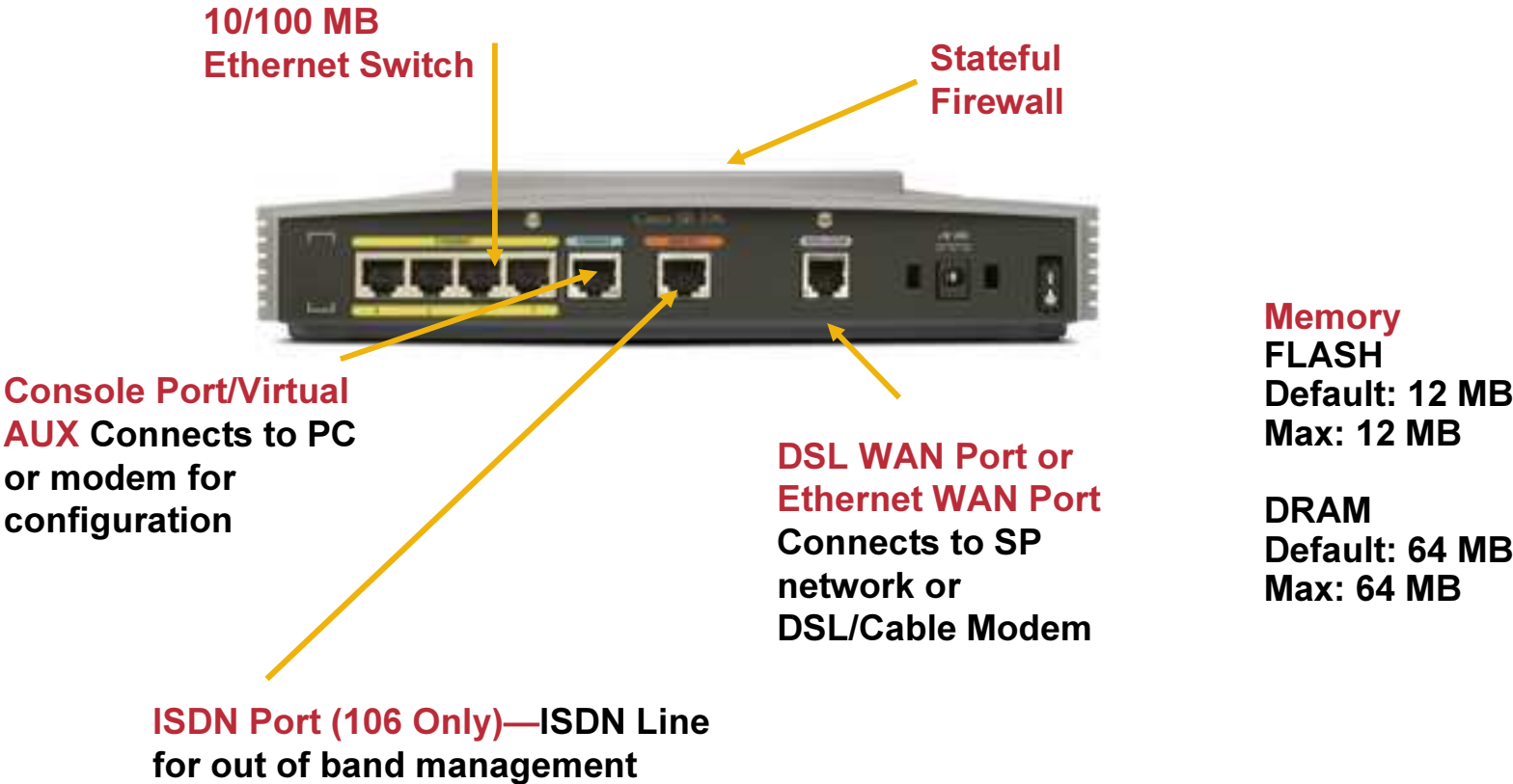- **802.3af POE and Cisco inline power on all ports**

Security Features include:
- **IEEE 802.1x Support**
  - with PVID/VVID*
  - with VLAN Assignment*
  - with DHCP Assignment*
  - with Guest VLAN*
- **SPAN for Export**
- **TACACS+ and RADIUS**
- **Port security**
- **PVLAN Edge**
- **VLAN ACL (VACL)**
- **Port ACL (PACL)***
- **Support for IOS FW**
  - **Transparent FW**
- **NAC**

SB100 Series

Cisco Small Business 100 Series of Broadband Router

10/100 MB Ethernet Switch

Stateful Firewall

Console Port/Virtual AUX Connects to PC or modem for configuration

DSL WAN Port or Ethernet WAN Port Connects to SP network or DSL/Cable Modem

Memory
FLASH
Default: 12 MB
Max: 12 MB

DRAM
Default: 64 MB
Max: 64 MB

ISDN Port (106 Only)—ISDN Line for out of band management

Choices for Secure Broadband and Wireless Networks

	Ethernet Routers	DSL Routers	
	Cisco SB 101	**Cisco SB 106**	**Cisco SB 107**
WAN Interface	**10 MB Ethernet**	**ADSL over ISDN**	**ADSL over POTS**
4-Port 10/100 Switch	Yes	Yes	Yes
Stateful Firewall	Yes	Yes	Yes
Cisco IOS Software	Yes	Yes	Yes
Cisco SDM	Yes	Yes	Yes
Remote Management with External Modem	Yes	Yes	Yes
Remote Management via ISDN Port	No	Yes	No
Cisco Service and Support	Yes	Yes	Yes

Pricing examples

Model	Description	GPL Price (USD)
CISCOSB107-K9	Cisco Small Business 107 Secure ADSL Router	329

	Orderability	FCS
CiscoSB107-K9	May10th	May 24th

Cisco IOS Router Managed CPE Portfolio

Markets

Enterprise

Medium Business

Small Business

Performance and Services Density

3800 Series

Cisco Integrated Services Routers

Highest Density and Performance for Concurrent Services

2800 Series

New Models for Small Offices

1800 Series

Embedded, Advanced Voice, Video, Data and Security Services

Modular

800 Series

Fixed

Small Business 100 Series

High-Performance Integrated Security and Data

Secure Broadband and Wireless Connectivity

Office Size

Enterprise Branch Office

Small Branch

Small Remote Offices

Teleworker

Single-Site Small Business

LW7719

27

Cisco 180x Routers Offer Greater Value Over the Cisco 1701 Router

Greater Value!

	Cisco 1701	Cisco 1801, 1802, 1803
Integrated LAN Switch	No	8-Port Switch
DSL Technology	ADSL over POTS	ADSL over POTS, ADSL over ISDN, G.SHDSL
Wireless Option	No	802.11a/b/g
Fast Ethernet WAN	1-Port	1-Port
Rack/Wall Mountable	No	Yes
Compact Flash: Removable, Default, Max	No, 32 MB, 32 MB	Yes, 32 MB, 128 MB
DRAM: Default, Max	96 MB, 128 MB	128 MB, 512 MB
PoE	No	Optional

Cisco 181x Routers Offer Greater Value Over the Cisco 1711/1712 Routers

Greater Value!

	Cisco 1711/1712	Cisco 1811, 1812
Integrated LAN Switch	4-Port Switch	8-Port Switch
Backup WAN	v.90 Modem (1711)/ISDN S/T BRI (1712)	v.92 Modem (1811)/ISDN S/T BRI (1812)
Wireless Option	No	Integrated 802.11a/b/g
Fast Ethernet WAN	1-Port	2-Ports
USB Ports	None	Yes
Rack/Wall Mountable	No	Yes
Compact Flash: Removable, Default, Max	No, 32 MB, 32 MB	Yes, 32 MB, 128 MB
DRAM: Default, Max	96 MB, 128 MB	128 MB, 512 MB
PoE	No	Optional
Real Time Clock	No	Yes