

# CISCO 3800 SERIES MIGRATION QUICK LOOK

INTEGRATED SERVICES ROUTERS FOR MEDIUM-SIZED TO LARGE BRANCH OFFICES AND BUSINESSES



This new family of Integrated Services Routers supports the wire-speed delivery of secure, concurrent data, voice and video services over a wide variety of WAN access technologies, offering the highest levels of performance, security, scalability, and availability for today's medium-sized to large branch offices and businesses.

## TOP 10 REASONS TO MIGRATE TO CISCO 3800 SERIES

1. Ability to run concurrent data, security, voice, and advanced services at wire speed up to T3/E3
2. Two to three times the routing performance and throughput of the Cisco 3700 Series family
3. Higher availability and resiliency with Online Insertion and Removal (OIR) and redundant system and inline power options
4. Enhanced security with onboard encryption hardware and Cisco Self-Defending Network services, including network device protection, threat defense, secure connectivity, and endpoint protection and control
5. Optimized for voice with integrated slots for DSPs on the motherboard (PVDMs), call processing and auto-attendant solution, and high-density interfaces for IP Communications
6. Support for up to four High-speed WAN Interface Cards (HWICs), four Enhanced Network Modules (NMEs), and four DSPs enables more integrated advanced services and offers the highest density platform configuration options
7. Two onboard 10/100/1000 LAN ports, optional SFP port, and optional integrated inline power supplies for 802.3af-compliant (Power over Ethernet (PoE)) devices
8. Expanded default and maximum memory capacity with ECC (Error Correction Code) DDR SDRAM memory to detect and correct SDRAM errors without user intervention
9. Maximum investment protection: IOS features parity with Cisco 3700 and support for existing portfolio of NM, WIC/VIC/VWIC, and AIM modules, as well as roadmap of enhanced HWIC, NME, and USB interfaces
10. Advanced management for routing, security, QoS and switching services with Cisco Router and Security Device Manager 2.0

## EXPANDED FEATURES AND INCREASED SCALABILITY

Feature	3725	3745	3825	3845
Form Factor	19 and 23" rack-mount	19 and 23" rack-mount	19" and NEBS/ETSI rack-mount	19" and NEBS/ETSI rack-mount
Integrated LAN Ports	2 10/100	2 10/100	2 10/100/1000	2 10/100/1000
Interface Slots	3 WIC	3 WIC	4 HWIC/WIC/VIC/VWIC	4 HWIC/WIC/VIC/VWIC
Network Module Slots	2	4	2	4
AIM Slots	2	2	2	2
USB Ports	0	0	2 (v1.1)	2 (v1.1)
Embedded Crypto Processor	No	No	Yes	Yes
Default/Max Flash	32/128 MB	32/128 MB	64/256 MB	64/256 MB
Default/Max SDRAM	256/256 MB	256/256 MB	256/1024 MB	256/1024 MB
SFP Port	0	0	1	1
Switch Ports with Optional Inline Power	Yes, up to 52	Yes, up to 72	Yes, up to 72	Yes, up to 96

### ADVANCED SECURITY

VPN	Yes, with AIM	Yes, with AIM	Yes, onboard	Yes, onboard
Network Admission Control (NAC) Support	Yes	Yes	Yes	Yes
URL Filtering Support	Yes, IOS and NM-CE based	Yes, IOS and NM-CE based	Yes, IOS and NM-CE based	Yes, IOS and NM-CE based
Maximum VPN Tunnels Supported (with VPN Encryption AIM)	Up to 1800	Up to 1800	Up to 2000	Up to 2500
Intrusion Prevention System	Yes, enabled through IOS security images	Yes, enabled through IOS security images	Yes, enabled through IOS security images	Yes, enabled through IOS security images

### VOICE CAPABILITIES

Digital Signal Processor (DSP) Support	Yes, with Voice NM	Yes, with Voice NM	Yes, onboard 4 PVDM slots	Yes, onboard 4 PVDM slots
Survival Remote Site Telephony Support	Yes, 144 users	Yes, 480 users	Yes, 336 users	Yes, 720 users
Cisco CallManager Express Support	Yes, 96 users	Yes, 120 users	Yes, 168 users	Yes, 240 users
Cisco Unity Express Support	Yes, up to 100 mailboxes	Yes, up to 100 mailboxes	Yes, up to 100 mailboxes	Yes, up to 100 mailboxes
Digital Voice Support	Yes, up to 300 calls	Yes, up to 540 calls	Yes, up to 480 calls	Yes, up to 720 calls
Analog Voice Support	Yes, up to 24 FXS, 16 FXO	Yes, up to 48 FXS, 32 FXO ports	Yes, up to 52 FXS, 36 FXO ports	Yes, up to 88 FXS, 56 FXO ports
Local Conferencing and Transcoding Support	Yes, requires NM	Yes, requires NM	Yes, use PVDMs	Yes, use PVDMs

## MIGRATION PATHS FROM LEGACY PLATFORMS

Cisco 3600 Series	Cisco 3700 Series	Cisco 3800 Series	Solution Category
CISCO3620	CISCO3725	CISCO3825	Routing
CISCO3640	CISCO3725 CISCO3745	CISCO3825 CISCO3845	Routing
CISCO3640A	CISCO3725 CISCO3745	CISCO3825 CISCO3845	Routing
CISCO3640A-2FE/VPN/K9	CISCO3725-VPN/K9	CISCO3825-SEC/K9 CISCO3825-HSEC/K9	Security
CISCO3661-AC	CISCO3745	CISCO3845	Routing
CISCO3662-AC	CISCO3745	CISCO3845	Routing
CISCO3662-2FE/VPN/K9	CISCO3745-VPN/K9	CISCO3845-SEC/K9 CISCO3845-HSEC/K9	Security
	CISCO3725-VPN-IDS/K9	CISCO3825 + NM-CIDS/K9 + NM-16ESW	Security, IPS, Switching
	CISCO3725-VPN-CE/K9	CISCO3845 + NM-CE-BP- 80G-K9 + NM-16ESW	Security, Content, Switching
	CISCO3725-V-CCME	CISCO3825-V-CCME/K9	Digital Voice
	CISCO3725-V-CCME-A	CISCO3825-V-CCME/K9	Analog Voice
	CISCO3745-V-CCME	CISCO3845-V-CCME/K9	Digital Voice
	CISCO3745-V-CCME-A	CISCO3825-V-CCME/K9	Analog Voice

## CISCO 3800 SERIES BUNDLED SOLUTIONS

SKU	Description	Solution Category
<b>3825 SOLUTIONS</b>		
CISCO3825	Cisco 3825 Integrated Services Router with 2 GE, 1 SFP, 2 NME, 4 HWIC, 2 AIM, IP Base software and AC power	Routing
CISCO3825-AC-IP	Cisco 3825 Integrated Services Router with 2 GE, 1 SFP, 2 NME, 4 HWIC, 2 AIM, IP Base software and AC Power with PoE	Routing
CISCO3825-DC	Cisco 3825 Integrated Services Router with 2 GE, 1 SFP, 2 NME, 4 HWIC, 2 AIM, IP Base software and DC power	Routing
CISCO3825-SEC/K9	Cisco 3825 Integrated Services Router Security Bundle with Advanced Security	Security
CISCO3825-HSEC/K9	Cisco 3825 Integrated Services Router Security-Bundle with AIM-VPN/EPII Plus, Advanced IP	Security
CISCO3825-V/K9	Cisco 3825 Voice Bundle with PVDm2-64F/ 256D and IOS SP Service	Voice
CISCO3825-SRST/K9	Cisco 3825 Voice Bundle with PVDm2-64F/ 256D, SRST Feature License for 168 phones, and SP Services	Voice, Security
CISCO3825-CCME/K9	Cisco 3825 Voice Bundle with PVDm2-64F/ 256D, CCME Feature License for 168 phones, and SP Services	Voice, Security
CISCO3825-V3PN/K9	Cisco 3825 V3PN Bundle with IOS Advanced IP-Services, PVDm2-64F/ 256D und AIM-VPN-EPII-PLUS, FL-CCME-168	Voice, Security
<b>3845 SOLUTIONS</b>		
CISCO3845	Cisco 3845 Integrated Services Router with 2 GE, 1 SFP, 4 NME, 4 HWIC, 2 AIM, IP Base software and AC power	Routing
CISCO3845-AC-IP	Cisco 3845 Integrated Services Router with 2 GE, 1 SFP, 4 NME, 4 HWIC, 2 AIM, IP Base software and AC Power with POE	Routing
CISCO3845-DC	Cisco 3845 Integrated Services Router with 2 GE, 1 SFP, 4 NME, 4 HWIC, 2 AIM, IP Base software and DC power	Routing
CISCO3845-SEC/K9	Cisco 3845 Integrated Services Router Security-Bundle with Advanced Security	Security
CISCO3845-HSEC/K9	Cisco 3845 Integrated Services Router Security-Bundle with AIM-VPN/HPII Plus, Advanced IP	Security
CISCO3845-V/K9	Cisco 3845 Voice Bundle with PVDm2-64F/ 256D and IOS SP Services	Voice
CISCO3845-SRST/K9	Cisco 3845 Voice Bundle mit PVDm2-64F/ 256D, SRST Feature License for 240 phones, and SP Services	Voice, Security
CISCO3845-CCME/K9	Cisco 3845 Voice Bundle with PVDm2-64F/ 256D, CCME Feature License for 240 phones, and SP Services	Voice, Security
CISCO3845-V3PN/K9	Cisco 3845 V3PN-Bundle with IOS Advanced IP-Services, PVDm2-64F/ 256D, and AIM-VPN/HPII Plus, FL-CCME-240	Voice, Security



For more information

[www.cisco.com/go/3800](http://www.cisco.com/go/3800)