

Third-Generation Wireless WAN Interface Module for Cisco 800M Series Integrated Services Routers

Overview

WAN Interface Modules (WIMs) provide highly flexible connectivity options for Cisco® 800M Series Integrated Services Routers (ISR). The Cisco 800M Series 3G WWAN Interface Module (WIM-3G) is the first-in-the-industry that supports HSPA+ and EV-DO technologies on the same module. It provides enterprise-class WWAN connectivity that can be used for both backup and primary applications. The module supports 3G standards (Evolved High-Speed Packet Access [HSPA+] and EvolutionData Optimized [EV-DO] Rev A) and is backward-compatible with High-Speed Packet Access (HSPA), Universal Mobile Telecommunications Service (UMTS), Enhanced Data Rates for Global Evolution (EDGE), General Packet Radio Service (GPRS), and EV-DO Rev 0/1xRTT. The WIM-3G is supported on Cisco 800M Series Integrated Services Routers only.

Figure 1 shows the rear of the Cisco 800M ISR (C841M-8X) ISR with the 3G WWAN Interface Module (WIM-3G) module inserted in first slot (Slot 0) with mounted antennas.

Figure 1. Cisco 800M ISR (C841M-8X) with 3G WWAN Interface Module (WIM-3G) in Slot 0




Ordering Information

Table 1 gives ordering information for the 3G WWAN Interface Module, and Table 2 gives specifications.

Table 1. Ordering Information

Part Number	Description	Supported Platforms and Quantity	Minimum IOS Release
WIM-3G	3G WWAN Interface Module	Cisco 800M Series Routers (C841M-4X, C841M-8X) 1 Module per Chassis	15.5(1)T1

Table 2. 3G WAN Interface Module Specifications

Feature	Specification
Product ID	WIM-3G
3G Modem Form Factor	Pluggable WAN Interface Module
Dimensions (HxWxD)	1.65 x 3.97 x 4.96 in.
Weight	0.4 kg
3G Features	<ul style="list-style-type: none"> • Support for HSPA+/HSPA, EV-DO, and WCDMA on same SKU with fallback to 2G (EDGE, GPRS, UMTS) and 1xRTT • Auto-switch failover between primary and backup link • 3G SNMPv2 MIBs and traps • SIM/R-UIM lock and unlock capabilities
Dual Subscriber Identity Module (SIM)/Removable User Identity Module (R-UIM)	<ul style="list-style-type: none"> • Provides high reliability and cellular multihoming for HSPA+/HSPA and CDMA networks • Dual SIM card socket; compliant with ISO-7816-2 (SIM mechanical)
Wireless Technologies and Frequency Bands	<ul style="list-style-type: none"> • HSPA+: 800/850/1900/2100 backward compatible with: <ul style="list-style-type: none"> ◦ HSDPA: 800, 850, 1900, and 2100 MHz ◦ UMTS: 800, 850, 1900, and 2100 MHz ◦ EDGE: 850, 900, 1800, and 1900 MHz ◦ GPRS: 850, 900, 1800, and 1900 MHz • Quad-band UMTS WCDMA (800 MHz, 850 MHz, 1900 MHz, 2100 MHz) • Dual-band CDMA EV-DO Rev A: 800 MHz, 1900 MHz backward-compatible with 1xRTT
SNMP MIBs	<ul style="list-style-type: none"> • 3G MIB • ENTITY MIB • IF MIB • 3G WWAN MIB persistence
3G Network Management and Diagnostics	<ul style="list-style-type: none"> • In-band and out-of-band management using Telnet (Cisco IOS® Software command-line interface [CLI]) and SNMP, including MIB II and other extensions) • Industry-standard 3G diagnostics and monitoring tools (QUALCOMM CDMA Air Interface Tester [CAIT] and Spirent Universal Diagnostic Monitor [UDM])
Programming Interface	Cisco IOS Software CLI
Outdoor Antennas, Diversity (Dual Antennas) & TNC Connectors for Field-replaceable Optional High-gain Antennas	Yes
Third-Party 3G Certification	
	<p>Safety:</p> <ul style="list-style-type: none"> • IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 • EN60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 ITE equipment • UL 60950-1+ AMD 1 AMD 2 ITE equipment <p>EMC:</p> <ul style="list-style-type: none"> • EN55022 Class B • EN55024 • EN61000-3-2 • EN61000-3-3 • VCCI Class B • 47 CFR Part 15 • EN 300 386 v1.6.1 • EN 301 489-1 • EN 301 489-7 • EN 301 489-24

Feature	Specification
	Radio: <ul style="list-style-type: none"> • EN 301 511 • EN 301 908-1 • EN 301 908-2 • 47 CFR PART 22 • 47 CFR PART 24

Antenna Specifications

Table 3. Specifications of 3G WAN Interface Module

Part Number	Description	Electrical Specifications	Mechanical Specifications
3G-ANTM1919D	<ul style="list-style-type: none"> • Multiband swivel mount dipole antenna • Faceplate mount 	Frequency range: 806 to 960 MHz and 1710 to 2170 MHz Gain: 0 dBi (806 to 960 MHz) and 0dBi (1710 to 2170 MHz) Maximum power: 25W Connector: TNC male Voltage standing wave ratio (VSWR): < 2.5:1 Nominal impedance: 50 ohms	<ul style="list-style-type: none"> • Antenna dimensions: 7.63 x 0.94 x 0.63 in. (19.37 x 2.34 x 1.59 cm) • Temperature rating: -22 to 158°F (-30 to 70°C)

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Next Steps

Learn more about the Cisco 800M Series ISR products by visiting:

<http://www.cisco.com/c/en/us/products/routers/800m-integrated-services-router-isr/index.html>. Or contact your local Cisco account representative.



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