Cisco Business Wireless Model Decoder

Objective

The objective of this document is to provide working understanding of the Model identifier for Cisco Business Wireless Access Points & Mesh Extenders.

- **View Switch PID Decoder**
- **View Router PID Decoder**
- **View Legacy Wireless Access Points PID Decoder**

If you are unfamiliar with terms in this document, check out **Cisco Business: Glossary of New Terms**.

Applicable Devices | Firmware Version

- 140AC **(Data Sheet)** | 10.4.1.0 **(Download latest)**
- 141ACM **(Data Sheet)** | 10.4.1.0 **(Download latest)**
- 142ACM **(Data Sheet)** | 10.4.1.0 **(Download latest)**
- 143ACM **(Data Sheet)** | 10.4.1.0 **(Download latest)**
- 240AC **(Data Sheet)** | 10.4.1.0 (**Download latest**)

The CBW 140/145/240 APs are not compatible with the CBW 150 series. Coexistence on the same LAN is not supported.

View table form of graphic

Product ID Fragment	Purpose	Detail

Example Product ID: CBW141ACM

CBW	Technology Identifier	CBW - Cisco Business Wireless
141	Series Identifier	140 / 145 - Primary Capable 141-M / 142-M / 143-M
AC	Wireless Band	245 - Primary Capable See Table 1 for details
M	Mesh Extender (Optional)	See Series Identifier

Table 1 - Wireless Specifications

The below table outlines the wireless specifications from the datasheet of the CBW240AC device. Below are links to the data sheets for all CBW series devices.

- **140AC and 145AC Datasheet**
- **141, 142, and 143 Mesh Extenders Datasheet**
- **240AC Datasheet**

Item	Specification
Requirements	Requires a Cisco Business access point within the network for mesh connectivity
Authentication and security	Wi-Fi Protected Access 2 (WPA2) 802.1X, RADIUS authentication, authorization, and accounting (AAA) 802.11r and 802.11i
Maximum clients	Maximum number of associated wireless clients: 200 per Wi-Fi radio, for a total of 400 clients per access point
802.11ac	2x2 MU-MIMO with two spatial streams, up to 867 Mbps 20-, 40-, and 80-MHz channels Dynamic Frequency Selection
Ethernet ports	Need to split certain specifications and requirements to show differentiation between models. For Example, the 141ACM extender has 4 Ethernet Ports, 142ACM has 1 port, and 143ACM has no Ethernet ports 1x Gigabit Ethernet uplink (10/100/1000BASE-T autosensing) 3x local Gigabit Ethernet ports (10/100/1000BASE-T autosensing), including one PoE out port: PoE out provides 802.3af when the mesh extender is powered by the provided power adapter
	802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
	802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 5 and 4 Mbps
	802.11n data rates on 2.4 GHz: 6.5 to 144 Mbps (MCS0-MCS15)
	802.11ac data rates on 5 GHz: 6.5 to 867 Mbps (MCS0-MCS9)

| Maximum number of nonoverlapping channels | A (A regulatory domain): 2.412 to 2.462 GHz; 11 channels
5.180 to 5.320 GHz; 8 channels
5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)
5.745 to 5.825 GHz; 5 channels
B (B regulatory domain): 2.412 to 2.462 GHz; 11 channels
5.180 to 5.320 GHz; 8 channels
5.500 to 5.720 GHz; 12 channels
5.745 to 5.825 GHz; 5 channels
C (C regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.745 to 5.825 GHz; 5 channels
D (D regulatory domain): 2.412 to 2.462 GHz; 11 channels
5.180 to 5.320 GHz; 8 channels
5.745 to 5.825 GHz; 5 channels
E (E regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.180 to 5.320 GHz; 8 channels
5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)
F (F regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.745 to 5.805 GHz; 4 channels
G (G regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.745 to 5.865 GHz; 7 channels
H (H regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.180 to 5.320 GHz; 8 channels
5.745 to 5.825 GHz; 5 channels
I (I regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.180 to 5.320 GHz; 8 | K (K regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.180 to 5.320 GHz; 8 channels
5.500 to 5.620 GHz; 7 channels
5.745 to 5.805 GHz; 4 channels
N (N regulatory domain): 2.412 to 2.462 GHz; 11 channels
5.180 to 5.320 GHz; 8 channels
5.745 to 5.825 GHz; 5 channels
Q (Q regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.180 to 5.320 GHz; 8 channels
5.500 to 5.700 GHz; 11 channels
R (R regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.180 to 5.320 GHz; 8 channels
5.660 to 5.700 GHz; 3 channels
5.745 to 5.805 GHz; 4 channels
S (S regulatory domain): 2.412 to 2.472 GHz; 13 channels
5.180 to 5.320 GHz; 8 channels
5.500 to 5.700 GHz; 11 channels
5.745 to 5.825 GHz; 5 channels
T (T regulatory domain): 2.412 to 2.462 GHz; 11 channels
5.280 to 5.320 GHz; 3 channels
5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)
5.745 to 5.825 GHz; 5 channels
Z (Z regulatory domain): 2.412 to 2.462 GHz; 11 channels
5.180 to 5.320 GHz; 8 channels
5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)
5.745 to 5.825 GHz; 5 |

	channels	channels
Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.		
Available transmit power settings	2.4 GHz Up to 20 dBm	5 GHz Up to 20 dBm
Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.		
Integrated antennas	2.4 GHz, gain 2 dBi 5 GHz, gain 3 dBi	
Indicators	Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors	

Environmental	Operating
	  Temperature: 32° to 104°F (0° to 50°C)
	  Humidity: 10% to 90% (noncondensing)
	  Maximum altitude: 9843 ft (3000 m) at 104°F (40°C)
	Nonoperating (storage and transportation)
	  Temperature: -22° to 158°F (-30° to 70°C)
	  Humidity: 10% to 90% (noncondensing)
	  Maximum altitude: 15,000 ft (4500 m) at 77°F (25°C)	

System	512 MB DRAM, 128 MB flash 710-MHz quad-core processor	
PoE output	802.3af: 15.4W at port	
Physical security	Kensington lock slot	
Warranty	Cisco Business limited lifetime hardware warranty	

Compliance	Safety:
	  UL 60950-1
	  CAN/CSA-C22.2 No. 60950-1
	  UL 2043
	  IEC 60950-1
	  EN 60950-1
	Radio approvals:
	  FCC Part 15.247, 15.407
	  RSS-247 (Canada)
	  EN 300.328, EN 301.893 (Europe)
	  ARIB-STD 66 (Japan)
	  ARIB-STD T71 (Japan)
	  EMI and susceptibility (Class B)
	  FCC Part 15.107 and 15.109
	  ICES-003 (Canada)
	  VCCI (Japan)
	  EN 301.489-1 and -17 (Europe)
	  EN 50385
	IEEE standards:
	  IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d
	  IEEE 802.11ac
	Security:
	  802.11i, WPA2
	  802.1X
	  Advanced Encryption Standard (AES)
	Extensible Authentication Protocol (EAP) types:
	  EAP-Transport Layer Security (TLS)
	  EAP-Tunneled TLS (TTLS) or Microsoft Challenge
	Handshake Authentication Protocol Version 2 (MSCHAPv2)
	  Protected EAP (PEAP) v0 or EAP-MSCHAPv2	

	EAP-Flexible Authentication via Secure Tunneling (FAST) PEAP v1 or EAP-Generic Token Card (GTC) EAP-Subscriber Identity Module (SIM) Multimedia: Wi-Fi Multimedia (WMM) Other: FCC Bulletin OET-65C RSS-102

If you would like to learn more about mesh wireless networks, check out any of the following articles:

Intro to Mesh Mesh FAQ Reboot Tips Reset to Factory Default Day Zero:Configure Via App / Web Mobile App vs Web UI Best Practices for a Cisco Business Wireless Mesh Network Allow Lists Update Software Get Familiar with the CBW App Troubleshooting Time Settings Troubleshoot Red LED Bridge Group Names