Cisco Catalyst IW6300 Series Heavy Duty Access Points

Contents

Cisco® Catalyst® IW6300 access points deliver secure, scalable, and flexible wireless connectivity to the most hazardous industrial environments, reliably delivering actionable data to always-on businesses.

Product overview

Designed for the most hazardous industrial locations, Cisco Catalyst IW6300 Heavy Duty Access Points deliver wireless connectivity, IoT control, and robust data collection to dangerous environments. Mines, refineries, and factory floors are undergoing a digital transformation, with Wi-Fi availability extracting live insights from equipment and workers alike. With 802.11ac Wave 2 connectivity, dual Power over Ethernet Plus (PoE+) out for IoT sensors or peripherals, multiple power-in sources, and a variety of uplink options, the IW6300 is a flexible wireless solution today's dynamic industry landscape requires. The IW6300 carries an IP67 rating and Class I, Division/Zone 2 certification, as well as a temperature rating of -40 to +75 degrees Celsius, making it an ideal mesh network component for heavy industry use. Additional customization beyond antenna and mounting options include WirelessHART, ISA100.11a, GPS, Bluetooth Low-Energy, and Zigbee modules, as well as customer or partner-built modules for specific use cases.

Features and benefits

Table 1. IW6300 access points features and benefits

Feature	Benefit
Class I, Division/Zone certification and IP67 rating	Deploy wireless connectivity anywhere, and stay online during the most extreme weather, in consistently hazardous areas, or during dangerous industrial events.
Dual PoE out	Send power to, and backhaul data directly from, local IoT assets such as IP cameras, sensors, or tracking systems.
Cisco IOx-ready and built for Cisco DNA	Cisco and Linux combine to create a powerful application environment with secure connectivity, all designed to be managed on a single pane of glass with Cisco DNA Center.
802.11 AC Wave 2	Provides up to 867-Mbps data rate with 2 x 2 MIMO and 2 spatial streams.
Modular expansion	Add capabilities, including GPS or Zigbee, or unique partner- or customer-built modules directly to the chassis.
Wireless Bridging	Extend the network to remote, difficult-to-access sites using Wireless Bridging.

Flexible deployment with HAZLOC certification

Every hazardous environment is unique. Whether a remote mine or local refinery, each location provides a different set of constraints, but presents the same additional value made available by digitization and connectivity. Monitor leaks, track assets and personnel, and control remote enabled devices from a central, safe location.

The Cisco Catalyst IW6300 Series Heavy Duty Access Points bring wireless connectivity to these dangerous worksites. The HAZLOC Class I, Division/Zone 2 certified, IP67-rated access point provides the rugged enclosure needed in heavy industry, with a variety of configurations to match any deployment scenario. These access points offer:

- Multiple power sources, including AC, DC, DCW, PoE+, and Cisco Universal Power over Ethernet (UPOE).
- Flexible backhaul. Deliver actionable IoT data to your network via Small Form Factor Pluggable (SFP), Ethernet, and wireless uplink.
- Modular expansion. Add IoT capability and future-proof your solutions with a variety of modules, including GPS, WirelessHART, Zigbee, and client-built modules.
- Antenna selection, with four ports for external, single or dual band, directional, or omnidirectional antenna, with up to 27 dBm output power per radio in two-antenna mode.
- Reach anywhere. Wireless Bridging mode and mesh capability enable coverage of less accessible areas.

Product specifications

Table 2. IW6300 product specifications

<table>
<tr><th>Item</th><th></th></tr>
<tr><td>Part numbers</td><td>IW-6300H-AC-X-K9, IW-6300H-DC-X–K9, IW-6300H-DCW-X–K9</td></tr>
<tr><td>802.11ac Wave 1 and 2 capabilities</td><td>• 2x2 MIMO with two spatial streams
• Multi- and single-user MIMO
• Maximal-Ratio Combining (MRC)
• 802.11ac beamforming (transmit beamforming)
• 20-, 40-, and 80-MHz channels
• PHY data rates up to 867 Mbps (80-MHz bandwidth in 5 GHz)
• Packet aggregation: A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)
• 802.11 Dynamic Frequency Selection (DFS)
• Cyclic Shift Diversity (CSD) support</td></tr>
<tr><td>802.11n Version 2.0 (and related) capabilities</td><td>• 2x2 MIMO with two spatial streams
• Maximal-Ratio Combining (MRC)
• 20- and 40-MHz channels
• PHY data rates up to 300 Mbps (40-MHz bandwidth in 5 GHz)
• Packet aggregation: A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)
• 802.11 Dynamic Frequency Selection (DFS)
• Cyclic Shift Diversity (CSD) support</td></tr>
<tr><td>Data rates supported</td><td>2.4-GHz radio:
802.11b: 1, 2, 5.5, 11 Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n data rates:
<table>
<tr><th>MCS Index</th><th>GI = 800 ns
20-MHz rate (Mbps)</th><th>GI = 400 ns
20-MHz rate (Mbps)</th></tr>
<tr><td>0</td><td>6.5</td><td>7.2</td></tr>
<tr><td>1</td><td>13</td><td>14.4</td></tr>
<tr><td>2</td><td>19.5</td><td>21.7</td></tr>
<tr><td>3</td><td>26</td><td>28.9</td></tr>
<tr><td>4</td><td>39</td><td>43.3</td></tr>
<tr><td>5</td><td>52</td><td>57.8</td></tr>
<tr><td>6</td><td>58.8</td><td>65</td></tr>
<tr><td>7</td><td>65</td><td>72.2</td></tr>
<tr><td>8</td><td>13</td><td>14.4</td></tr>
</table></td></tr>
</table>

Item					
	9		26		28.9
	10		39		43.3
	11		52		57.8
	12		78		86.7
	13		104		115.6
	14		117		130
	15		130		144.4
	5-GHz radio: **802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps** **802.11n data rates:**				
	MCS Index	**GI = 800 ns** **20-MHz rate (Mbps)**	**GI = 400 ns** **20-MHz rate (Mbps)**	**GI = 800 ns** **40-MHz rate (Mbps)**	**GI = 400 ns** **40-MHz rate (Mbps)**
	0	6.5	7.2	13.5	15
	1	13	14.4	27	30
	2	19.5	21.7	40.5	45
	3	26	28.9	54	60
	4	39	43.3	81	90
	5	52	57.8	108	120
	6	58.8	65	121.5	135
	7	65	72.2	135	150
	8	13	14.4	27	30
	9	26	28.9	54	60
	10	39	43.3	81	90
	11	52	57.8	108	120
	12	78	86.7	162	180
	13	104	115.6	216	240
	14	117	130	243	270
	15	130	144.4	270	300

Item								
	802.11ac data rates:							
	MCS Index	Spatial streams	20-MHz rate (Mbps)		40-MHz rate (Mbps)		80-MHz rate (Mbps)	
			GI = 800 ns	GI = 400 ns	GI = 800 ns	GI = 400 ns	GI = 800 ns	GI = 400 ns
	0	1	6.5	7.2	13.5	15	29.3	32.5
	1	1	13	14.4	27	30	58.5	65
	2	1	19.5	21.7	40.5	45	87.8	97.5
	3	1	26	28.9	54	60	117	130
	4	1	39	43.3	81	90	175.5	195
	5	1	52	57.8	108	120	234	260
	6	1	58.5	65	121.5	135	263.3	292.5
	7	1	65	72.2	135	150	292.5	325
	8	1	78	86.7	162	180	351	390
	9	1	–	–	180	200	390	433.3
	0	2	13	14.4	27	30	58.5	65
	1	2	26	28.9	54	60	117	130
	2	2	39	43.3	81	90	175.5	195
	3	2	52	57.8	108	120	234	260
	4	2	78	86.7	162	180	351	390
	5	2	104	115.6	216	240	468	520
	6	2	117	130	243	270	526.5	585
	7	2	130	144.4	270	300	585	650
	8	2	156	173.3	324	360	702	780
	9	2	-	-	360	400	780	866.7

Item	
Frequency band and 20-MHz operating channels	A (A 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 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 • 5.500 to 5.720 GHz; 12 channels • 5.745 to 5.865 GHz; 7 channels E (E regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz & 5.720GHz) 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 5.825 GHz; 5 channels H (H regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.825 GHz; 5 channels I (I regulatory domain): • 2.412 to 2.472 GHz; 13 channels K (K regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.280 to 5.320 GHz; 3 channels • 5.500 to 5.620 GHz; 7 channels • 5.745 to 5.825 GHz; 5 channels L (L regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.500 to 5.620 GHz; 7 channels • 5.745 to 5.865 GHz; 7 channels

Item	
	M (M regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.805 GHz; 4 channels N (N regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.745 to 5.825 GHz; 5 channels Q (Q regulatory domain): • 2.412 to 2.472 GHz; 13 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 5.825 GHz; 9 channels S (S regulatory domain): • 2.412 to 2.472 GHz; 13 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 • 5.180 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 Z (Z regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.805 GHz; 4 channels
Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain. Customers are responsible for verifying approval for use in their individual countries. To verify approval and to determine availability of the regulatory domain that corresponds to a particular country, visit https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html.	
Maximum number of non-overlapping channels	2.4 GHz • 802.11b/g: ◦ 20 MHz: 3 • 802.11n: ◦ 20 MHz: 3 ◦ 40 MHz: 1 (hardware-capable) 5 GHz • 802.11a: ◦ 20 MHz: 27 • 802.11n: ◦ 20 MHz: 27 ◦ 40 MHz: 13

Item	
	• 802.11ac: ◦ 20 MHz: 27 ◦ 40 MHz: 13 ◦ 80 MHz: 6
Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.	

Regulatory Domain PID	Countries Supported
IW-6300H-AC-A-K9, IW-6300H-DC-A-K9, IW-6300H-DCW-A-K9	Canada, Argentina, Bolivia, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Mexico, Paraguay, Peru, Philippines, Uruguay, Venezuela.
IW-6300H-AC-B-K9, IW-6300H-DC-B-K9, IW-6300H-DCW-B-K9	Puerto Rico and United States of America
IW-6300H-AC-C-K9, IW-6300H-DC-C-K9, IW-6300H-DCW-C-K9	Bahrain, Egypt and Pakistan
IW-6300H-AC-D-K9, IW-6300H-DC-D-K9, IW-6300H-DCW-D-K9	India
IW-6300H-AC-E-K9, IW-6300H-DC-E-K9, IW-6300H-DCW-E-K9	Albania, Algeria, Austria, Belgium, Bahamas, Bosnia & Herzegovina, Bulgaria, Burundi, Cameroon, Croatia, Cyprus, Czech Republic, Denmark, Estonia, France, Finland, Germany, Gabon, Ghana, Gibraltar, Greece, Hungary, Iceland, Italy, Ireland, Jamaica, Jordan, Kazakhstan, Kenya, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Malta, Macedonia, Malta, Mauritius, Monaco, Mongolia, Montenegro, Morocco, Netherlands, Nigeria, Norway, Oman, Poland, Portugal, Romania, Serbia, Slovak Republic, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Trinidad, Turkey, United Kingdom, United Republic of Tanzania
IW-6300H-AC-F-K9, IW-6300H-DC-F-K9, IW-6300H-DCW-F-K9	Indonesia
IW-6300H-AC-H-K9, IW-6300H-DC-H-K9, IW-6300H-DCW-H-K9	China & Mongolia
IW-6300H-AC-I-K9, IW-6300H-DC-I-K9, IW-6300H-DCW-I-K9	Algeria, Bahrain, Belarus, Israel, Tunisia, Uzbekistan
IW-6300H-AC-L-K9, IW-6300H-DC-L-K9, IW-6300H-DCW-L-K9	Malaysia
IW-6300H-AC-M-K9, IW-6300H-DC-M-K9, IW-6300H-DCW-M-K9	Iraq, Kuwait, Qatar, Saudi Arabia, UAE

Regulatory Domain PID	Countries Supported
IW-6300H-AC-N-K9, IW-6300H-DC-N-K9, IW-6300H-DCW-N-K9	Barbados, Fiji, Panama
IW-6300H-AC-Q-K9, IW-6300H-DC-Q-K9, IW-6300H-DCW-Q-K9	Japan
IW-6300H-AC-R-K9, IW-6300H-DC-R-K9, IW-6300H-DCW-R-K9	Russia Federation
IW-6300H-AC-S-K9, IW-6300H-DC-S-K9, IW-6300H-DCW-S-K9	Brunei, Hong Kong, Macau, Singapore, Thailand, Vietnam
IW-6300H-AC-T-K9, IW-6300H-DC-T-K9, IW-6300H-DCW-T-K9	Taiwan
IW-6300H-AC-Z-K9, IW-6300H-DC-Z-K9, IW-6300H-DCW-Z-K9	Australia and New Zealand

Note: Importers rules apply for following countries:

- Algeria, Bahamas, Bahrain, Barbados, Bolivia, Brunei, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, Egypt, El Salvador, Fiji, Guatemala, Iraq, Jamaica, Jordan, Kuwait, Lebanon, Libya, Malaysia, Mauritius, Morocco, Pakistan, Panama, Paraguay, Peru, Qatar, Saudi Arabia, Serbia, Sri Lanka, Thailand, Trinidad, Tunisia, Uzbekistan, Venezuela and Vietnam

Item		
Receive sensitivity	**2.4-GHz radio, 20-MHz channel bandwidth 802.11b**	
	Data rate (Mbps)	**Typical sensitivity (dBm)**
	1	-97
	2	-94
	5.5	-90
	11	-87
	802.11g	
	Data rate (Mbps)	**Typical sensitivity (dBm)**
	6	-89
	9	-89
	12	-87
	18	-85
	24	-83
	36	-80

Item			
	48	-75	
	54	-74	
	802.11n HT20		
	MCS index	**Spatial streams**	**Typical sensitivity (dBm)**
	0	1	-89
	1	1	-89
	2	1	-87
	3	1	-85
	4	1	-83
	5	1	-80
	6	1	-75
	7	1	-74
	8	2	-88
	9	2	-85
	10	2	-83
	11	2	-80
	12	2	-76
	13	2	-72
	14	2	-71
	15	2	-69
	5-GHz radio 802.11a		
	Data rate (Mbps)	**Sensitivity (dBm)**	
	6	-90	
	9	-88	
	12	-87	
	18	-84	
	24	-81	

Item					
	36	-77			
	48	-75			
	54	-74			
	802.11n/ac				
	MCS index	**Spatial streams**	**Typical sensitivity, HT/VHT20 (dBm)**	**Typical sensitivity, HT/VHT40 (dBm)**	**Typical sensitivity, VHT80 (dBm)**
	0	1	-90	-87	-84
	1	1	-88	-86	-83
	2	1	-87	-84	-82
	3	1	-84	-81	-79
	4	1	-81	-78	-76
	5	1	-77	-74	-72
	6	1	-75	-73	-70
	7	1	-74	-71	-68
	8	1	-69	-67	-64
	9	1	-	-65	-62
	0	2	-89	-86	-84
	1	2	-86	-84	-81
	2	2	-83	-82	-78
	3	2	-80	-78	-74
	4	2	-77	-75	-71
	5	2	-73	-70	-67
	6	2	-71	-68	-65
	7	2	-70	-67	-64
	8	2	-65	-62	-59
	9	2	-	-60	-58

Item					
Maximum conducted transmit power	2.4-GHz radio: 27 dBm with 2 antennas at all data rates 5-GHz radio 802.11a				
	Data rate (Mbps)	Maximum conducted transmit power with two antennas (dBm)			
	6	27			
	9	27			
	12	27			
	18	27			
	24	26			
	36	26			
	48	25			
	54	24			
	802.11n/ac				
	MCS index	Spatial streams	Maximum conducted transmit power with two antennas (dBm)		
			20-MHz bandwidth	40-MHz bandwidth	80-MHz bandwidth
	HT/VHT MCS0	1	27	27	27
	HT/VHT MCS1	1	27	27	27
	HT/VHT MCS2	1	27	27	27
	HT/VHT MCS3	1	27	27	27
	HT/VHT MCS4	1	26	26	26
	HT/VHT MCS5	1	25	25	25
	HT/VHT MCS6	1	24	24	25
	HT/VHT MCS7	1	23	23	23
	VHT MCS8	1	23	23	23
	VHT MCS9	1	–	22	22
	HT MCS8/VH MCS0	2	27	27	27
	HT MCS9/VH MCS1	2	27	27	27

Item					
	HT MCS10/VH MCS2	2	27	27	27
	HT MCS11/VH MCS3	2	27	27	27
	HT MCS12/VH MCS4	2	25	25	25
	HT MCS13/VH MCS5	2	24	24	24
	HT MCS14/VHT MCS6	2	23	23	23
	HT MCS15/VHT MCS7	2	22	22	22
	VHT MCS8	2	22	22	22
	VHT MCS9	2	-	21	21
Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.					
Interfaces	• x1 10/100/1000BASE-T autosensing PoE+ In (802.3at),UPOE in • x2 10/100/1000BASE-T autosensing PoE Out (802.3af), PoE+ out (802.3at) • x1 fiber SFP (fiber or electrical) • Management console port (RJ-45) • USB3.0 port • Multicolor system LED, port LED • DC power input (IW-6300H-DC-X-K9, IW-6300H-DCW-X-K9) • AC power input (IW-6300H-AC-X-K9) • Reset button				
Uplink options	Ethernet, SFP, and wireless mesh				
Dimensions (W x L x H)	IW-6300H-DC-X-K9: 9.7" x 11" x 3.8" IW-6300H-DCW-X-K9: 9.7" x 11" x 5.6" IW-6300H-AC-X-K9: 9.7" x 11" x 5.6"				
Weight	13.3 lbs (IW-6300H-AC-X-K9), 9.8 lbs (IW-6300H-DC-X-K9), 12.7 lbs (IW-6300H-DCW-X-K9)				
Environment	• Nonoperating (storage) temperature: -40° to +185° F (-40° to +85° C) • Nonoperating (storage) altitude test: +25˚C, 15,000 ft. • Operating temperature: -58° to +158° F (-40° to +70° C) with solar load and still air, and cold start limited to -40° C • Operating temperature: -58° to +167° F (-40° to +75° C) without solar loading, still air, and cold start limited to -40° C • Operating humidity: 10% to 90% (noncondensing) • Operating altitude test: 40˚C, 10,000 ft. • Wind resistance: Up to 100 MPH sustained winds. Up to 165 MPH wind gusts				
Environmental ratings	EN/IEC 60529 (IP66 and IP67), Class I, Divison/Zone 2				

Item				
Antennas				
Frequency band	**Antenna**	**Frequency**	**Peak gain**	**Antenna type**
Dual-band	AIR-ANT2547V-N AIR-ANT2547VG-N AIR-ANT2547V-N-HZ	2.4/5 GHz	4/7 dBi	Omnidirectional
	AIR-ANT2568VG-N	2.4/5 GHz	6/8 dBi	Omnidirectional
	AIR-ANT2588P3M-N=	2.4/5 GHz	8/8 dBi	Directional, dual polarized, 3-port
	AIR-ANT2513P4M-N=	2.4/5 GHz	13/13 dBi	Directional, dual polarized, 4-port
Single-band	AIR-ANT2450V-N= AIR-ANT2450VG-N= AIR-ANT2450HG-N=	2.4 GHz	5 dBi	Omnidirectional
	AIR-ANT2480V-N=	2.4 GHz	8 dBi	Omnidirectional
	AIR-ANT2413P2M-N=	2.4 GHz	13 dBi	Directional, dual polarized, 2-port
	AIR-ANT5150VG-N= AIR-ANT5150HG-N=	5 GHz	5 dBi	Omnidirectional
	AIR-ANT5180V-N=	5 GHz	8 dBi	Omnidirectional
	AIR-ANT5114P2M-N=	5 GHz	13 dBi	Directional, dual polarized, 2 port
Note: For antenna details refer to the Cisco Industrial Routers and Industrial Wireless Access Points Antenna Guide. **Note:** Not all antennas are Class I, Division/Zone 2 certified. Work with your account team to determine which antenna is correct for your deployment and to view the current selection of certified antennas.				
Powering Options	• IW-6300H-AC-X-K9: 85-264V~ maximum, marked 100-240V~, 50-60Hz, 1.3A • IW-6300H-DC-X-K9: 44 to 57Vdc, 1.2A • IW-6300H-DCW-X-K9: 10.8 to 36Vdc, 5.9A • PoE+/UPOE			
Warranty	1 year			
Compliance	**Information technology equipment:** UL/CSA 60950-1 UL/CSA 62368-1 IEC/EN 60950-1 IEC/EN 62368-1 CB report and certificate to IEC 60950-1 with all country deviations			

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	CB report and certificate to IEC 62368-1 with all country deviations NOM to NOM-019-SCFI (via UL certificate of conformity) **Hazardous locations** UL 121201 (Class I, Div 2, groups A-D) CSA 213 (Class I, Div 2, groups A-D) UL/CSA 60079-0, -15 (Class I, Zone 2, Gc/IIC) IEC 60079-0, -15 IECEx test report (Class I, Zone 2, Gc/IIC) EN 60079-0, -15 ATEX certificate (Class I, Zone 2, Gc/IIC) **Ingress (water/dust) protection** UL 50E (type 4X) EN/IEC 60529 (IP66 and IP67) UL/CSA/IEC 60950-22 **Shock and vibration** MIL-STD-810F **Immunity** • IEC/EN61000-4-5 Level 4 AC Surge Immunity • IEC/EN61000-4-4 Level 4 Electrical Fast Transient Burst Immunity • IEC/EN61000-4-3 Level 4 Radiated Field Immunity • IEC/EN61000-4-2 Level 4 ESD Immunity • IEC/EN 61000-4-3 10vrms Conducted Immunity • IEC/EN 61000-4-8 – Power-frequency Magnetic Field Immunity • IEC/EN 61000-4-11 – VDI • IEC 61010-1 Overvoltage Category IV • CISPR24/CISPR 35 • KN 35 **Emissions** • FCC part 15.107, 15.109 • FCC Part 15B, Class A • EN 55032 • CISPR 32 /CISPR22 • KN32 • ICES-003 • EN 61000-3-3 – Harmonics emissions for up to 16am **Radio approvals** • FCC Part 15.247, 15.407 • FCC 2.1091 • RSS - 247 • RSS-102 • AS/NZS 4268 2017 • MIC Article 2, paragraph 1, item (19)-2,3,3-2 • KCC Notice No. 2013-1 • EN 300 328 v2.1.1

Item	
	• EN 301 893 v2.1.1 • EN 62311 • LP0002: 2018 • Regulatory domain support ◦ FCC (Americas, parts of Asia, and the Middle East) ◦ ETSI (Europe, Middle East, Africa, and parts of Asia) ◦ TELEC (Japan) ◦ KCC (Korea) **Radio EMC** • EN 301 489-1 -17 • KN 301 489-1 -17 **Security** • Wireless Bridging / mesh ◦ X.509 digital certificates ◦ MAC address authentication ◦ Advanced Encryption Standards (AES), Temporal Key Integrity Protocol (TKIP) • Wireless access ◦ 802.11i, Wi-Fi Protected Access (WPA3), WPA ◦ 802.1X authentication, including Extensible Authentication Protocol (EAP) and Protected EAP (EAP-PEAP), EAP Transport Layer Security (EAP-TLS), EAP- Tunneled TLS (EAP-TTLS), EAP-Subscriber Identity Module (EAP-SIM), and Cisco Lightweight Extensible Authentication Protocol (LEAP) ◦ Advanced Encryption Standards (AES), Temporal Key Integrity Protocol (TKIP) ◦ VPN pass-through ◦ IP Security (IPsec) ◦ Layer 2 Tunneling Protocol (L2TP) ◦ MAC address filtering

Ordering information

Table 3. Ordering information

Part number	Product description
IW 6300 Series	• IW-6300H-DC-X-K9: Dual-band 802.11a/g/n/ac, Wave 2, external antennas, 44-57VDC/POE+/UPOE power input • IW-6300H-DCW-X-K9: Dual-band 802.11a/g/n/ac, Wave 2, external antennas, 10.8-36VDC/POE+/UPOE power input • IW-6300H-AC-X-K9: Dual-band 802.11a/g/n/ac, Wave 2, external antennas, 110-220VAC/POE+/UPOE power input Regulatory domains: (x = regulatory domain) **Note:** Additional mounting hardware may be needed for certain deployment scenarios. For a complete list of mounting hardware and available accessories, please reference the ordering guide and work with your account team.

Warranty information

The Cisco Catalyst IW6300 Series Heavy Duty Access Points come with a 1-year limited warranty.

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's 2018 Corporate Social Responsibility (CSR) Report.

Reference links to **information about key environmental sustainability topics** (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Reference links to **product-specific environmental sustainability information** that is mentioned in relevant sections of this data sheet are provided in the following table:

Sustainability Topic	Reference
General	
Environmental ratings	Page 15. Environmental ratings information
Power	
Powering options	Page 14. Powering options information
Material	
Unit Weight	Page 13. Weight

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Call to action

Do your business' most valuable assets work in the most hazardous locations? Deploy digital solutions anywhere with the Cisco Catalyst IW6300 Series Heavy Duty Access Points and enable Class I, Division/Zone 2 industries with IoT intelligence, powered by Cisco.

Document history

New or Revised Topic	Described in	Date
Added Domain PIDs by country	Page 10	2/28/2020
Updated operating temperature rating	Product overview and environment	12/18/2019
Updated antenna certifications	Table 2, Page 5	12/18/2019
Added shock and vibration certification	Table 2, Page 15	12/18/2019
Added mounting hardware note	Page 17	12/18/2019

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Printed in USA C78-742907-02 03/20