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Data sheet Cisco public

# Cisco 6300 Series Embedded Services Access Points

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Embed pervasive wireless throughout your industrial assets and make your city intelligent with the Cisco<sup>®</sup> 6300 Series Embedded Services Access Points (ESW6300). Flexible, scalable, and secure, the ESW6300 provides resilient wireless mesh solutions built directly into your own hardware or IT solutions.

## Product overview

Cisco 6300 Series Embedded Services Access Points (ESW6300) integrate wireless mesh networking into heavy-industry and smart-city assets. Purpose-built with 802.11ac Wave 2, Cisco DNA Assurance, and Cisco Identity Services Engine (ISE), the ESW6300 provides a dependable and secure connectivity solution in almost any work environment. Dual Power over Ethernet (PoE) and PoE+ ports provide power and downlink connectivity to smart connected devices and sensors, and a single USB-out port allows for custom integrations.

The ESW6300 offers a scalable and secure mesh architecture for high-performance Wi-Fi services, and can also serve as an advanced static or mobile Workgroup Bridge (WGB). Its embeddable form factor adds connectivity almost anywhere it can fit—without compromising aesthetics or requiring cumbersome mounting solutions.



## Features and benefits

Table 1.	ESW6300	access	points	features	and	benefits
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Feature	Benefit
802.11ac Wave 2 radio	Provides up to 867-Mbps data rates with 2 x 2 Multiple-Input, Multiple-Output (MIMO) and up to two spatial streams.
Multiuser MIMO (MU- MIMO)	Allows transmission of data to multiple 802.11ac Wave 2-capable clients simultaneously to improve the client experience. Prior to the 802.11ac Wave 2 standard, access points could transmit data to only one client at a time, typically referred to as single-user MIMO.
Small Form-Factor Pluggable (SFP) port	Supports optical, fiber-based network connectivity for remote locations.

Feature	Benefit
Dual PoE-out	Send power to-and backhaul data directly from-local IoT assets, such as IP cameras, sensors, or tracking systems.
Flexible deployment modes	Allows for deployment in a variety of ways, including as traditional access points and in mesh networks. The access points can also be deployed with the Cisco Mobility Express Solution. This deployment is ideal for small to medium-sized networks that require 50 or fewer access points without a physical controller. All deployment modes are easy to set up and configure.
No enclosure	Enables deployment of the access point where it is needed. The 6300 Embedded Services Series easily integrates into larger hardware, like light poles, without disturbing the aesthetics of the area.

## Flexible, embedded mesh networking

Cities and industrial environments were not designed for digital transformation. Flexibility is key to new connectivity deployments. Now you can remove constraints with the Cisco ESW6300. The embeddable form factor and wireless mesh capabilities allow for a myriad of successful deployment scenarios, without the requirement of cumbersome cabling. Create an expansive–and nearly invisible–network almost anywhere. You can configure the ESW6300 with:

- Cisco FlexConnect, a wireless solution for remote deployments. FlexConnect mode enables configuration and control of access points in a separate area through a WAN link, without having to deploy an additional controller.
- Bridge mode. The access point is configured to build a wireless mesh network where wired network cabling is not available.
- Flex+Bridge mode, which allows for both FlexConnect and Bridge mode to operate on the same access point.

## **Product specifications**

Table 2.	ESW6300	product	specifications
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Item	Specifications
Radio type	2.4 GHz: 802.11b/g/n, 2x2 MIMO, 2 spatial streams 5 GHz: 802.11a/n/ac, 2x2 MIMO, 2 spatial streams
802.11ac Wave 2 capabilities	<ul> <li>2x2 MIMO with two spatial streams</li> <li>Multi- and single-user MIMO</li> <li>Maximal-Ratio Combining (MRC)</li> <li>802.11ac beamforming (transmit beamforming)</li> <li>20-, 40-, and 80-MHz channels</li> <li>PHY data rates up to 867 Mbps (80-MHz bandwidth in 5 GHz)</li> <li>Packet aggregation: A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)</li> <li>802.11 Dynamic Frequency Selection (DFS)</li> <li>Cyclic Shift Diversity (CSD) support</li> </ul>

ltem	Specifications							
802.11n Version 2.0 (and related) capabilities	<ul> <li>2x2 MIMO with two spatial streams</li> <li>Maximal-Ratio Combining (MRC)</li> <li>20- and 40-MHz channels</li> <li>PHY data rates up to 300 Mbps (40-MHz bandwidth in 5 GHz)</li> <li>Packet aggregation: A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)</li> <li>802.11 Dynamic Frequency Selection (DFS)</li> <li>Cyclic Shift Diversity (CSD) support</li> </ul>							
Data rates supported	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:							
	MCS index		GI = 20-I	800 ns MHz rate (Mbps	)	GI = 40 20-MH	00 ns Iz rate (Mbps)	
	0		6.5			7.2		
	1		13			14.4		
	2		19.5			21.7		
	3		26	26				
	4		39			43.3		
	5		52	52				
	6		58.8			65		
	7		65	65				
	8		13			14.4		
	9		26			28.9		
	10		39			43.3		
	11		52			57.8		
	12		78			86.7		
	13		104		115.6		5.6	
	14		117		130			
	15		130			144.4		
	5-GHz radio: 802.11a: 6, 9, 1 802.11n data rat	2, 18, 24 tes:	, 36,	48, 54 Mbps				
	MCS index	GI = 800 20-MHz rate (Mb	D ns 2 ops)	GI = 400 ns 20-MHz rate (Mbps)	GI = 80 40-MH (Mbps)	0 ns z rate	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	

Item	Specifications										
	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				
	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			

Item	Specifications									
	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		
Frequency band and 20-MHz operating channels	8       2       156       173.3       324       360       702         9       2       -       360       400       780         A (A regulatory domain):       . <t< td=""><td>650 780 866.7</td></t<>						650 780 866.7			
	<ul> <li>5.745 to 5.825 GHz; 5 channels</li> <li>H (H regulatory domain):</li> <li>2.412 to 2.472 GHz; 13 channels</li> <li>5.745 to 5.825 GHz; 5 channels</li> <li>I (I regulatory domain):</li> <li>2.412 to 2.472 GHz; 13 channels</li> <li>K (K regulatory domain):</li> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.280 to 5.320 GHz; 3 channels</li> <li>5.500 to 5.620 GHz; 7 channels</li> </ul>									
	L (L regulatory d • 2.412 to 2.472 • 5.500 to 5.620	omain): GHz; 13 channe GHz; 7 channel	els s							

Item	Specifications
	• 5.745 to 5.865 GHz; 7 channels
	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
	Q (Q regulatory domain):
	• 2.412 to 2.472 GHz; 13 channels
	R (R regulatory domain):
	• 2.412 to 2.472 GHz, 13 Channels
	<ul> <li>5.660 to 5.825 GHz; 9 channels</li> </ul>
	S (S regulatory domain):
	• 2 412 to 2 472 GHz <sup>-13</sup> 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
	• 5.500 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 5.825 GHz; 5 channels
	Note: Customers are responsible for verifying approval for use in their individual countries. Not all regulatory domains are available for the ESW6300. To verify approval and to determine availability of the regulatory domain that corresponds to a particular country, visit <a href="https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html">https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html</a> .
Maximum number of nonoverlapping channels	2.4 GHz
	• 802.11b/g:
	• 20 MHz: 3
	• 802.11n:
	• 20 MHz: 3
	<ul> <li>40 MHz: 1 (hardware-capable)</li> </ul>
	5 GHz
	• 802.11a:
	• 20 MHz: 27
	• 802.11n:
	• 20 MHz: 27

Item	Specifications						
	<ul> <li>40 MHz: 13</li> <li>802.11ac:</li> <li>20 MHz: 27</li> <li>40 MHz: 13</li> <li>80 MHz: 6</li> <li>Note: This number varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.</li> </ul>						
Receive sensitivity	2.4-GHz radio, 20-MHz channel bandwidth						
	Data rate (Mbps)	Τνρία	cal sensitivity (dBm)				
	1		-97				
	2		-94				
	5.5		-90				
	11		-87				
	802.11g						
	Data rate (Mbps)	Туріс	vical sensitivity (dBm)				
	6			-89			
	9			-89			
	12						
	18			-85			
	24			-83			
	36		-80				
	48		-75	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				

Item	Specifications									
	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)	)		Sensitiv	vity (dBm	n)				
	6			-90						
	9			-88						
	12			-87						
	18			-84						
	24 36 48 54			-81						
				-77						
				-75						
				-74						
	802.11n/ac									
	MCS index	Spatial streams	Typical sensitiv HT/VH (dBm)	vity, T20	Typical sensitivi HT/VHT (dBm)	ity, 40	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			

Item	Specifications							
	4	2	77		75		71	
	4	2	-//		-75	-	/	
	5	2	-/3		-70	-	6/	
	6	2	-/1		-68	-	65	
	7	2	-70		-67	-	64	
	8	2	-65		-62	-	59	
	9	2	-		-60	-	58	
Maximum conducted transmit power	<ul><li>2.4-GHz radio: 27 dBm with 2 antennas at all data rates</li><li>5-GHz radio</li><li>802.11a</li></ul>							
	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-M bandv	Hz width	40-MHz bandwidt h	80-MHz t 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	

ltem	Specifications						
	HT MCS9/VH MCS1	27		27	27		
	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 according to individual country regulations and antenna gain. Refer to the product documentation for specific details.						
Interfaces	<ul> <li>x1 10/100/1000BASE-T auto-sensing PoE+ in (802.3at), Cisco Universal Power over Ethernet (UPOE) in</li> <li>x2 10/100/1000BASE-T auto-sensing PoE out (802.3af), PoE+ out (802.3at)</li> <li>x1 fiber SFP (fiber or electrical)</li> <li>Management console port (RJ-45)</li> <li>USB 3.0 port</li> <li>Multicolor system LED, port LED</li> <li>DC power input</li> <li>Reset button</li> </ul>						
Uplink options	Ethernet, SFP, and	d wireless mesh					
Antennas	Dual band						
		2.4-GHz peak gain (dBi)	5-GHz peak ga (dBi)	c gain Antenna type			
	AIR-ANT2547V- N AIR- ANT2547VG-N AIR-ANT2547V- N-HZ	4	7	Omnio	directional		
	AIR- ANT2568VG-N	6	8	Omnie	directional		
	AIR-	8	8	Direct	tional, dual		

Item	Specifications						
	ANT2588P3M- N=				ł	polarization, 3 port	
	AIR- ANT2513P4M- N=	13		13		Directional, dual polarization, 4 port	
	2.4-GHz single band						
			Peak gain (dBi)		Pattern		
	AIR-ANT2450V-N= AIR-ANT2450VG-N=		5		Omnidirectional, vertical polarization		
	AIR-ANT2450HG-N=		5		Omnidirectional, horizontal polarization		
	AIR-ANT2480V-N=		8		Omnidirectional		
	AIR-ANT2413P2M	I-N=	13		Directional, dual polarization, 2 port		
	5-GHz single band						
			Peak gain (dBi)		Pattern		
	AIR-ANT5150VG-N= 5		5	C v		nidirectional, ical polarization	
	AIR-ANT5150HG-N=		5		Omnidirectional, horizontal polarization		
	AIR-ANT5180V-N	=	8		Omr	nidirectional	
	AIR-ANT5114P2M-N=		13		Directional, dual polarization, 2-port		
	Note: For antenna details refer to the <u>Cisco Industrial Routers and Industrial</u> <u>Wireless Access Points Antenna Guide</u> .						
RF ports	4x MMCX female						
Power input	<ul><li>44-57 VDC</li><li>PoE+ and UPOE</li></ul>						
Power consumption							
Compliance	Information technol UL/CSA 60950-1 UL/CSA 62368-1 IEC/EN 60950-1 IEC/EN 62368-1 CB report and cert CB report and cert Immunity • Less than or equa • ANSI/IEEE C62.41	ificate finate f	to IEC 60950 to IEC 62368 J for 6kV/3kA	-1 with all coun -1 with all coun @ 8/20 ms wavef	try de try de orm	eviations eviations	

ltem	Specifications
	<ul> <li>IEC/EN61000-4-4 Level 4 Electrical Fast Transient Burst Immunity</li> </ul>
	<ul> <li>IEC/EN61000-4-3 Level 4 Radiated Field Immunity</li> </ul>
	IEC/EN61000-4-2 Level 4 ESD Immunity
	<ul> <li>IEC/EN 61000-4-3 10vrms Conducted Immunity</li> </ul>
	IEC/EN 61000-4-8 - Power-Frequency Magnetic Field Immunity
	• IEC/EN 61000-4-11 - VDI
	FN60950 Overvoltage Category IV
	• CISPR24/CISPR 35
	• KN 35
	Emissions
	• FCC part 15.107, 15.109
	• FCC Part T5B, Class A
	• EN 55032
	• CISPR 32 /CISPR22
	• KN32
	• ICES-003
	• EN 61000-3-2 - Harmonics emissions for up to 16amp
	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
	• EN 301 893 v2.1.1
	• EN 62311
	• LP0002: 2018
	Regulatory domain support
	<ul> <li>FCC (Americas, parts of Asia, and the Middle East)</li> </ul>
	• ETSI (Europe, Middle East, Africa, and parts of Asia)
	• TELEC (Japan)
	<ul> <li>KCC (Korea)</li> </ul>
	Radio EMC
	• EN 301 489-1 -17
	• KN 301 489-1 -17
	Security
	Wireless Bridging / mesh
	<ul> <li>X.509 digital certificates</li> </ul>
	MAC address authentication
	<ul> <li>Advanced Encryption Standards (AES) Temporal Key Integrity Protocol (TKIP)</li> </ul>
	Wireless access
	<ul> <li>802 11i Wi-Fi Protected Access (WPA2) WPA</li> </ul>
	<ul> <li>802.1X authentication including Extensible Authentication Protocol and</li> </ul>
	Protected EAP (EAP-PEAP), EAP Transport Layer Security (EAP-TLS), EAP-

ltem	Specifications
	<ul> <li>Tunneled TLS (EAP-TTLS), EAP-Subscriber Identity Module (EAP-SIM), and Cisco Lightweight Extensible Authentication Protocol (LEAP)</li> <li>Advanced Encryption Standards (AES), Temporal Key Integrity Protocol (TKIP)</li> <li>VPN pass-through</li> <li>IP Security (IPsec)</li> <li>Layer 2 Tunneling Protocol (L2TP)</li> <li>MAC address filtering</li> </ul>
PoE output	35.3 W total Maximum 30W per PSE port
USB interface	USB 2.0 / USB 3.0 supported
Dimensions (H x W x L)	8.5 in. x 7.55 in. x 1.9 in.
Weight	3.1 lbs.
Environmental (operating temperature range)	<ul> <li>Non-operating (storage) temperature: -40° to 185°F (-40° to 85°C)</li> <li>Non-operating (storage) altitude test: 25°C, 15,000 ft.</li> <li>Operating temperature: -40° to 185°F (-40° to 85°C) as measured at the center top surface of thermal plate</li> <li>Operating humidity: 10% to 90% (noncondensing)</li> <li>Operating altitude test: 40°C, 10,000 ft.</li> </ul>
Mounting options	DIN rail
Warranty	1 year

## Ordering information

#### Table 3. Ordering information

Part number	Product description
ESW6300 Series	<ul> <li>ESW-6300-CON-X-K9 (USB-enabled)</li> <li>ESW-6300-CON-X-K9 (USB-disabled)</li> </ul>
	Regulatory domains: (x = regulatory domain)
	Customers are responsible for verifying approval for use in their individual countries. To verify approval that corresponds to a particular country or the regulatory domain used in a specific country, visit <a href="https://www.cisco.com/go/aironet/compliance">https://www.cisco.com/go/aironet/compliance</a> .
	Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Cisco Global Price List (GPL).
	Cisco Smart Net Total Care® Service for the ESW6300 Series
	Refer to the service part numbers on Cisco Commerce Workspace for available service offerings.

## Warranty information

The Cisco 6300 Series Embedded Services Access Points come with a 1-year limited warranty that provides full warranty coverage of the hardware. The warranty includes 10-day advance hardware replacement and

helps ensure that software media are defect-free for 90 days. For more details, visit <u>https://www.cisco.com/go/warranty</u>.

### 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 <u>Corporate Social Responsibility</u> (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	<u>Materials</u>
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

## **Cisco Wireless LAN Services**

Realize the full business value of your technology investments faster with intelligent, customized services from Cisco. Backed by deep networking expertise, Cisco Wireless LAN Services enable you to deploy a sound, scalable mobility network that enables rich media collaboration while improving the operational efficiency gained from a converged wired and wireless network infrastructure based on the Cisco Unified Wireless Network. We offer expert advisory, implementation and optimization services to accelerate your transition to advanced mobility services while continuously optimizing the performance, reliability, and security of that architecture after it is deployed. In addition, Smart Net Total Care service helps you protect your investment and derive maximum value from your Cisco products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes access to the Cisco Technical Assistance Center 24 hours a day, 365 days a year, IOS software updates, online resources, and expedited hardware replacement when needed. The Smart Net Total Care service helps you solve problems faster, improve operational efficiency, and reduce the risk of downtime. For more details, visit: https://www.cisco.com/c/en/us/products/wireless/service-listing.html.

## Cisco Capital

#### Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

## Embed Cisco Wi-Fi into your industrial networking solutions

Does your product or solution have the wireless connectivity in place to guarantee secure wireless backhaul of your IoT devices, while in a ruggedized, embeddable form factor? The Cisco 6300 Series Embedded Services Access Points is flexible enough to connect your autonomous vehicle solutions as well as fully industrial or outdoor use cases to the network, where it can seamlessly integrate into an existing Cisco network or be the backbone of a new network altogether.

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Printed in USA