EKI-6333AC-M12 Series

EN50155 Industrial M12 Wi-Fi AP

Features

- Supports IEEE802.11ac MIMO 2T2R
- Supports WLAN transmission rates up to 867 Mbps
- Supports secure access with WEP, 802.1x, WPA/WPA2-Personal, WPA/WPA2-Enterprise
- Provides web-based configuration
- Supports dual bands 2.4/5GHz concurrent
- Designed with dual radio modules
- Anti-vibration M12 design
- Wide range power input 24/48/72/96/110 V_{DC}

Introduction

EKI-6333AC-M12 Industrial Wi-Fi AP is designed for railway applications, including rolling stock. EKI-6333AC-M12 supports AP/Bridge/Client modes and is designed with dual 2.4GHz/5GHz wireless modules. It also supports IEEE 802.11 a/b/g/n/ac concurrent dual bands with M12 connector to provide a reliable wireless connectivity for Industrial environments. EKI-6333AC-M12 has high wireless connectivity performance for devices in remote locations where cable connections are impractical. EKI-6333AC-M12 provides ample bandwidth, even for video applications.

Mechanics

Specifications

Ethernet Communications

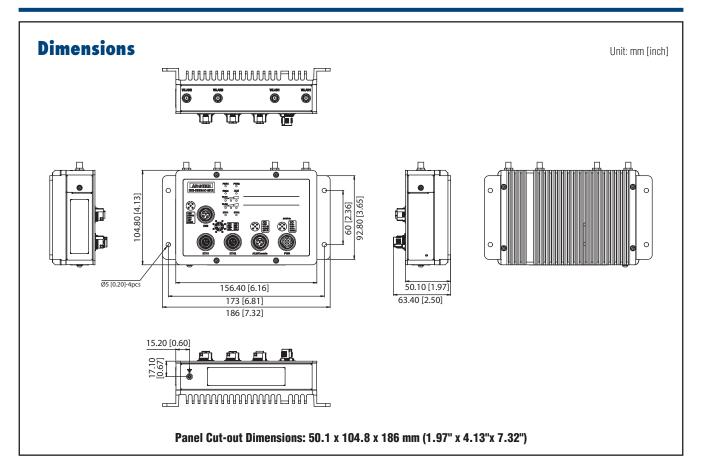
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 Port Type 	M12 X-Code (EKI-6333ACX) M12 D-Code (EKI-6333ACD)	EnclosureMounting	Metal shell with solid mounting kits Wall
No. of Ports	2		D) 186 x 50.1 x104.8 mm (7.32" x 1.97" x 4.13")
 Speed 	2 x 100/1000 Mbps EKI-6333ACX) 2 x 10/100 Mbps (EKI-6333ACD)	 Weight 	1.5 Kg
Wireless LAN Commu	nications	Interface	
 Compatibility 	IEEE 802.11a/b/g/n/ac	Console Port	M12 A-Code female
 No. of Radio 	2	 USB Port 	M12 A-Code female
 Date Rates 	2 11b: 11M, 5.5M, 2M, 1Mbps	 Power Connector 	M12 A-Code male (5-pin)
	11a/g: 54M, 48M, 36M, 24M, 18M, 12M, 9M, 6Mbps 11n: HT20 MCS0 ~ 7 / HT40 MCS0 ~ 7	Modulation Techniques	
	11ac: VHT20 MCS0 ~ 8 / VHT40 MCS0 ~ 9 / VHT80	IEEE 802.11a/n	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
	MCS0 ~ 9	IEEE 802.11b	DSSS (DBPSK, DQPSK, CCK)
 Antenna Connector 	2 x RP-SMA connectors (female) for RP-SMA antenna (male)	IEEE 802.11g	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
No. of Antenna	4 (supports 2T2R)	Channel Support	
Free Space Range	Open space 100 m	 IEEE 802.11b/a/an 	HT20
 Wireless Security 	Open System , Shared Key, Lagacy 8021X, WPA/WPA2,	1222 002.1113/g/git	FCC: CH1 ~ CH11; ETSI: CH1 ~ CH13
	WPA-PSK (TKIP), WPA2-PSK(AES)	IEEE 802.11gn	HT40
Software		J	FCC: CH3 ~ CH9; ETSI: CH3 ~ CH11
Operation Modes	Access Point/Bridge/Client mode	IEEE 802.11a/an/ac	FCC: 5.15~5.25GHz;5.725~5.85GHz
 Management 	Web UI		ETSI: 5.15~5.25GHz;5.47~5.725GHz
 Wireless 	Radio on/off, WMM/Regatta Mode, Output Power Control, Fragmentation Length, Beacon Interval,	Wireless Transmission Rates	
	RTS/CTS threshold, DTIM Interval	Transmitted Power	802.11b 20dBm
 Protocol 	ARP, ICMP, IPv4, IPv6, TCP, UDP, DHCP Client, DNS, HTTP, SNTP		802.11a 18dBm @ 6 Mbps, 15dBm @ 54 Mbps 802.11g 21dBm @ 6 Mbps, 18dBm @ 54 Mbps 802.11n HT20 21dBm @ MCS0/8, 16dBm @ MCS7/15 802.11n HT40 20dBm @ MCS0/8, 16dBm @ MCS7/15

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802.11ac VHT20 18dBm @ MCS0; 13dBm @ MCS8 802.11ac VHT40 18dBm @ MCS0; 13dBm @ MCS9 802.11ac VHT80 18dBm @ MCS0; 13dBm @ MCS9

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Power Requirements

- Power Input
- Power Consumption
- Power Type

Environment

- Operating Temperature -20 ~ 60°C (-4 ~ 140°F) -40 ~ 80°C (-40 ~ 176°F)
- Storage Temperature
- Operating Humidity

Regulatory Approvals

- EMC

Rail Traffic

Receiver Sensitivity

- 802.11b Sensitivity -95 dBm @ 1 Mbps; -80 dBm @ 11 Mbps
- 802.11a/g Sensitivity -94 dBm @ 6 Mbps; -80 dBm @ 54 Mbps
- 802.11n HT20
- 802.11n HT40
- -92 dBm @ MCS0; -73 dBm @ MCS7 802.11ac VHT20 -93 dBm @ MCS0: -71 dBm @ MCS8

24-48V_{DC} (LV model), 72/96/110V_{DC} (HV model)

14W (LV model)/ 21W (HV model)

CE, FCC Part 15 Subpart B (Class B)

-93 dBm @ MCS0; -76 dBm @ MCS7

Dual Power

10~95% RH

EN 50155

- 802.11ac VHT40 -90 dBm @ MCS0; -66 dBm @ MCS9
- 802.11ac VHT80 -88 dBm @ MCS0; -65 dBm @ MCS9

Ordering Information

- EKI-6333ACXL-M12-A IEEE802.11 a/b/g/n/ac AP/Bridge/Client with 24/48VDC, X-code Ethernet
- EKI-6333ACXH-M12-A IEEE802.11 a/b/g/n/ac AP/Bridge/Client with
- 72/96/110V_{DC}, X-code Ethernet EKI-6333ACDL-M12-A IEEE802.11 a/b/g/n/ac AP/Bridge/Client with 24/48V_{DC}, D-code Ethernet
- EKI-6333ACDH-M12-A IEEE802.11 a/b/g/n/ac AP/Bridge/Client with 72/96/110V_{DC}, D-code Ethernet
- 1750008001-01 5dBi WIFI Antenna 2.4G/5GHz (not included)