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.

Specifications

Ethernet Communications

Port Type
M12 X-Code (EKI-6333ACX)
M12 D-Code (EKI-6333ACD)

• No. of Ports 2

Speed 2 x 100/1000 Mbps EKI-6333ACX)

2 x 10/100 Mbps (EKI-6333ACD)

Wireless LAN Communications

• Compatibility IEEE 802.11a/b/g/n/ac

No. of Radio

Date Rates
11b: 11M, 5.5M, 2M, 1Mbps

11a/g: 54M, 48M, 36M, 24M, 18M, 12M, 9M, 6Mbps

11n: HT20 MCS0 ~ 7 / HT40 MCS0 ~ 7 11ac: VHT20 MCS0 ~ 8 / VHT40 MCS0 ~ 9 / VHT80

MCS0 ~ 9

• Antenna Connector 2 x RP-SMA connectors (female) for RP-SMA antenna

(male)

No. of Antenna
Free Space Range
4 (supports 2T2R)
Open space 100 m

Wireless Security Open System , Shared Key, Lagacy 8021X, WPA/WPA2,

WPA-PSK (TKIP), WPA2-PSK(AES)

Software

Operation Modes Access Point/Bridge/Client mode

• Management Web UI

Wireless
Radio on/off, WMM/Regatta Mode, Output Power

Control, Fragmentation Length, Beacon Interval,

RTS/CTS threshold, DTIM Interval

Protocol
ARP, ICMP, IPv4, IPv6, TCP, UDP, DHCP Client, DNS,

HTTP, SNTP

Mechanics

• Enclosure Metal shell with solid mounting kits

Mounting Wall

Dimensions (W x H x D) 186 x 50.1 x104.8 mm (7.32" x 1.97" x 4.13")

• Weight 1.5 Kg

Interface

Console Port M12 A-Code female
USB Port M12 A-Code female
Power Connector M12 A-Code male (5-pin)

Modulation Techniques

• IEEE 802.11a/n OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

■ IEEE 802.11b DSSS (DBPSK, DQPSK, CCK)

• IEEE 802.11g OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

Channel Support

• IEEE 802.11b/g/gn HT20

FCC: CH1 ~ CH11; ETSI: CH1 ~ CH13

• IEEE 802.11gn HT40

FCC: CH3 ~ CH9; ETSI: CH3 ~ CH11

• IEEE 802.11a/an/ac FCC: 5.15~5.25GHz;5.725~5.85GHz ETSI: 5.15~5.25GHz:5.47~5.725GHz

Wireless Transmission Rates

■ **Transmitted Power** 802.11b 20dBm

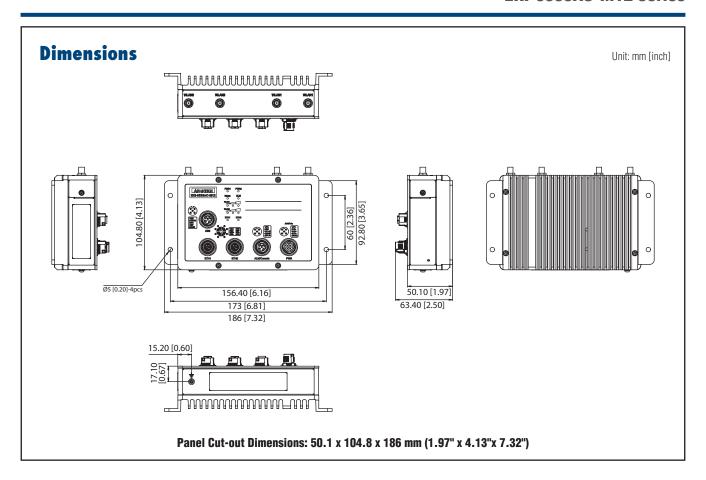
802.11a 18dBm @ 6 Mbps, 15dBm @ 54 Mbps 802.11a 21dBm @ 6 Mbps, 18dBm @ 54 Mbps 802.11n HT20 21dBm @ MCS0/8, 16dBm @ MCS7/15 802.11n HT40 20dBm @ MCS0/8, 16dBm @ MCS7/15 802.11ac VHT20 18dBm @ MCS0; 13dBm @ MCS8 802.11ac VHT40 18dBm @ MCS0; 13dBm @ MCS9 802.11ac VHT40 18dBm @ MCS0; 13dBm @ MCS9

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Industrial Wireless and Protocol Gateway Solutions

All product specifications are subject to change without notice.



Power Requirements

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

■ Power Consumption 14W (LV model) / 21W (HV model)

Power Type
Dual Power

Environment

Operating Temperature -20 ~ 70°C (-4 ~ 158°F)
Storage Temperature -40 ~ 80°C (-40 ~ 176°F)

■ Operating Humidity 10 ~ 95% RH

Regulatory Approvals

• EMC CE, FCC Part 15 Subpart B (Class B)

• Rail Traffic EN 50155

Receiver Sensitivity

802.11b Sensitivity
802.11a/g Sensitivity
802.11n HT20
802.11n HT40
802.11n HT40
802.11ac VHT20
802.11ac VHT40
802.11ac VHT80
802.11ac VHT80

Ordering Information

■ EKI-6333ACXL-M12-A IEEE802.11 a/b/g/n/ac AP/Bridge/Client with 24/48V_{DC},

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)

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