EKI-6311G

802.11 b/g Wireless Access **Point/Client Bridge**



Features

- IEEE 802.11 b/g compatible
- IEEE 802.3 af Power over Ethernet (PoE) support
- High speed data rates (up to 54 Mbps)
- Output power up to 19dBm (80mW)
- Point-to-Point, Point-to-Multipoint wireless connectivity
- WEP/WPA/WPA2/ IEEE 802.1 x authentication support
- WDS (Wireless Distribution System) support
- IP65 compliance protects against dust and water
- Multi-SSID (up to 4 SSID) support

4 **Ethernet Switches**

0 Device Servers

Serial Comm. Card

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ROHS CE FCC

Introduction

EKI-6311G features enhanced wireless transmission capabilities to provide a reliable wireless environment for industrial building systems. Moreover, a detachable antenna can collocate with any high gain antenna to enhance wireless connections even further. To protect wireless connections, EKI-6311G can encrypt transmissions through 64/128-bit WEP data encryption and also supports WPA2/WPA/802.1x for powerful security authentication.

Specifications

General

Chinset Atheros solution

 Data Rates 802.11 b: 1, 2, 5.5, 11Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps Standards IEEE802.11 b/g, IEEE802.1x, IEEE802.3, IEEE802.3u

Certifications IP65, FCC Part 15B

CE EN60950/EN300328/EN301489-1-17

RF Information

 Frequency Band 2.400 ~ 2.484 GHz

 Media Access Protocol Carrier sense multiple access with collision avoidance

(CSMA/CA)

Modulation Technology

Receive Sensitivity

802.11b: Direct-Sequence Spread Spectrum (DSSS)

> DBPSK @ 1Mbps DQPSK @ 2Mbps CCK @ 5.5 and 11Mbps

Orthogonal Frequency Division Multiplexing (OFDM) 802.11g:

BPSK @ 6 and 9 Mbps QPSK @ 12 and 18 Mbps 6-QAM @ 24 and 36 Mbps 64-QAM @ 48 and 54 Mbps 2.412~2.472G (IEEE802.11g)

-92dBm@6Mbps -76dBm@54Mbps

2.412 ~ 2.472G (IEEE802.11b)

-92dBm@11Mbps -96dBm@1Mbps

 Transmit Output Power IEEE802.11g: 14dBm+-2 (Typical) IEEE802.11b: 17dBm+-2

Antennas 5dBi dipole antenna x 2 (external) RF Connector SMA female

Power

Power Consumption Max 12 W

 Power Input Active Ethernet (Power over Ethernet): 48 Vpc/0.375A

Networking Information

Topology Infrastructure Ad-hoc

Operation Mode Point-to-Point/ Point-to-Multipoint AP/Client Bridge/

WDS Repeater

1 x 10/100 Mbps RJ-45 LAN Port (Auto Switch) Interface Security IEEE802.1x / RADIUS Client (EAP-MD5/TLS/TTLS,

PEAP) Support in AP Mode

IEEE802.1x Supplicant (EAP-MD5/TLS/TTLS, PEAP)

support in Client Bridge Mode

WEP 64/128 bits WPA/WPA2 Personal PSK (Pre Share Key) with TKIP/AES

WPA/WPA2 Enterprise EAP-MD5/TLS/TTLS authenticator with TKIP/AES

MAC address filtering Laver2 Isolation

VLAN tunneling support Hide SSID in beacons DHCP client/server

IP Auto-configuration

Management

 Remote Configuration Web-based configuration (HTTP)

Telnet configuration

• Firmware Upgrade Upgrade firmware via web-browser

Physical

Dimensions (L x W x H) 209.1 x 165.4 x 61.5 mm

Weight

Environment

Operating Temperature $-10 \sim 60^{\circ} \text{ C } (14 \sim 140^{\circ} \text{ F})$ - 40 ~ 85° C (-40 ~ 185° F) Storage Temperature Humidity 5 ~ 95% (non-condensing)

Ordering Information

802.11b/g Wireless AP/Client Bridge (US) EKI-6311G EKI-6311G-EU 802.11b/a Wireless AP/Client Bridge (EU)