EKI-6321AG
EKI-6322AG
EKI-6323AG

802.11a/b/g Single Radio
Outdoor Wireless Access Point

802.11a/b/g Dual Radio
Outdoor Wireless Access Point

802.11a/b/g Triple Radio
Outdoor Wireless Access Point

NEW

EKI-6321AG   EKI-6322AG   EKI-6323AG

RoHS COMPLIANT 2002/95/EC   CE   FCC

Features

- IEEE 802.11 a/b/g compatible
- Power over Ethernet (PoE) with power injector
- Ultra Fast Roaming (Handover between AP nodes <10ms) enables seamless wireless connectivity while under 140 km/h moving speeds
- Daisy Chain Mesh (Low latency, high throughput) extends wireless coverage (up to 33km) and maintains high throughput rates (12~15 Mbps)
- Point-to-Point, Point-to-Multipoint wireless connectivity in Bridge mode
- Smart Traffic Load Balance, Wireless failover redundancy (EKI-6322AG, EKI-6323AG)
- IP67 rated housings with wide operating temperatures (-35° ~70° C)

Introduction

EKI-6321AG, EKI-6322AG and EKI-6323AG are perfectly ideal wireless solutions for outdoor long range deployment, ultra fast roaming and reliable and robust wireless infrastructure. All of them provide 5GHz/ 2.4GHz dual band radio functionality with clean and highly reliable wireless point-to-point (PtP) or point-to-multipoint (PtMP) performance for distant locations. The low latency and high throughput over multiple wireless hops greatly enable the extension of network coverage. Comprehensive security features provide the benefits of secure and flexible installation for wireless deployment. IP67 sturdy waterproof housing and enhanced thermal design even extends excellent performance to all harsh outdoor environments.

Specifications

Standard Support

- **Wireless** — IEEE802.11a, IEEE802.11b/g
- **Ethernet** — IEEE802.3, IEEE802.3u
- **Certifications** — US FCC Part 15 Class B & C & E
  Europe ETSI 300 328, ETSI 301 489-1&17, ETSI 301 893 ,EN 60950 compliant and CE Mark
- **Data Rates** — 802.11b 11, 5.5, 2, 1 Mbps, auto-fallback, 802.11a/g 54, 48, 36, 24, 18, 12, 9, 6 Mbps, auto-fallback

Physical Specifications

- **Power** — DC 48Volt / 0.8A; AC Adapter 100V~240V Supports Power over Ethernet (PoE)
- **Dimensions (L x W x H)** — 226 x197 x 79 mm
- **Weight** — 1600g

Environment

- **Operating Temp.** — -35 ~70° C (-40 ~158° F)
- **Storage Temperature** — -40 ~ 80° C (-40 ~ 176° F)
- **Humidity** — 0% ~ 95% non-condensing

Interface Operation Modes

- Access Point (AP) / Wireless Station (AP Client)

System Operation Mode

- Bridge / Transparent Bridge / Router

Other Features

- DHCP Client/Server, Statistic routing table, RIP v1&v2, MS NetBIOS IP Filter Enable/Disable

Modulation Techniques

- **802.11a** — OFDM(BPSK, QPSK, 16-QAM, 64-QAM)
- **802.11b** — DSSS (DBPSK, DQPSK, CCK)
- **802.11g** — OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

Channel Support

- **802.11b/g** — US/Canada: 11 (1~11)
  Europe: 13 (1~13); France: 4 (10~13)
  Japan: 11b: 14 (1~13 or 14th), 11g:13(1~13)
  China: 13 (1~13)
- **802.11a** — US/Canada: 5.725~5.85GHz
  Europe1: 19 non-overlapping channel (5.15~ 5.35GHz, 5.47~5.725GHz)
  Japan: 4 non-overlapping channels (5.15 ~ 5.25GHz)
  China : 5 non-overlapping channels (5.725 ~ 5.85GHz)

Wireless Transmission Rates

- **802.11b** — 11, 5.5, 2, 1 Mbps, auto-fallback,
- **802.11a/g** — 54, 48, 36, 24, 18, 12, 9, 6 Mbps, auto-fallback
- **Transmitted Power** — 802.11b mode: 17dBm
  802.11g mode: 17dBm @ 6Mbps, 15dBm @ 54Mbps
  802.11a mode: 15dBm @ 6Mbps, 13dBm @ 54Mbps

Receiver Sensitivity

- **802.11b Sensitivity** — -93dBm @ 1Mbps; -88dBm @ 11Mbps
- **802.11g Sensitivity** — -89dBm @ 6Mbps; -77dBm @ 48Mbps; -72dBm @ 54Mbps
- **802.11a Sensitivity** — -88dBm @ 6Mbps; -76dBm @ 48Mbps; -71dBm @ 54Mbps

Ordering Information

- **EKI-6321AG** — 802.11a/b/g Single Radio Outdoor Wireless AP(US)
- **EKI-6321AG-EU** — 802.11a/b/g Single Radio Outdoor Wireless AP(EU)
- **EKI-6322AG** — 802.11a/b/g Dual Radio Outdoor Wireless AP(US)
- **EKI-6322AG-EU** — 802.11a/b/g Dual Radio Outdoor Wireless AP(EU)
- **EKI-6323AG** — 802.11a/b/g Triple Radio Outdoor Wireless AP(US)
- **EKI-6323AG-EU** — 802.11a/b/g Triple Radio Outdoor Wireless AP(EU)
- **1702002600** — Power Cable US Plug 1.8m
- **1702002605** — Power Cable EU Plug 1.8m
- **1702031801** — Power Cable UK Plug 1.8m
- **1702031836** — Power Cable China/Australia Plug 1.8m