# EKI-6351-A

# **IEEE 802.11 a/b/g/n** Wi-Fi Mesh AP/Station



# **Features**

Unique features of EKI-6351-A

- Highly secured self-healing & self-forming Mesh capability
- Ultra-fast roaming (hand-over switch time ≤ 20 ms)
- High throughput multiple hopping (≥ 100 Mbps @ 10 hops)

#### Common features:

- Ease of use installation utilities: antenna alignment, distance calculation and site survey tools
- Compliant with IEEE 802.11a/b/g/n
- MIMO 2 x 2 11n, up to 300 Mbps data rate
- Dual 12 ~ 48 V redundant DC input power
- 802.3at PoE input
- · Gigabit Ethernet support
- WEP, WPA, WPA2-PSK/EAP (IEEE 802.1X/RADIUS, TKIP and AES)
- Wide operating temperature range from -35 to 75°C
- EN50155 compliant









# Introduction

The EKI-6351-A are perfect wireless AP/stations for your deployment. With self-healing & self-forming capabilities, the wireless network is free from interruption even if part of the Mesh node fails. Ultra-fast roaming seamlessly enables the applications to achieve high-speed mobility. This high throughput Mesh network covers the increasing data demands of applications such as video security, surveillance and entertainment.

Comprehensive security features prevent the system from intrusion whilst the wide operating temperature range enables excellent performances in harsh environments.

# **Specifications**

## **Standard Support**

Wireless IEEE 802.11a/b/g/n compliant

IEEE 802.11i, IEEE 802.3/802.3u/802.3ab, IEEE 802.3at PoE, 802.1d, 802.1w, 802.1q, 802.1p Ethernet

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

802.11a, g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps Passive 15 V PoE, max. distance: 20 meters IEEE 802.11n: @ 800ns (400ns) GI

20 MHz BW

1 Nss: maximal

2 Nss: 130 (144.4) Mbps maximal

40 MHz BW

1 Nss: 135 (150) Mbps maximal

2 Nss: 270 (300) Mbps maximal

# **Physical Specifications**

Power Dual redundant 12 ~ 48 V<sub>DC</sub>

IEEE 803.2at PoE

Normal operation: Max. 17 W Power Consumption

Cold start: Max. 13W

Dimensions (W x H x D) 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")

Weight 0.63 Kg

Metal, IP30 protection Enclosure Mounting DIN-rail, Wall

#### **Environment**

Operating Temperature -35 ~ 75°C (-31 ~ 167°F) Storage Temperature -40 ~ 85°C (-40 ~ 185°F) **Ambient Relative** 5% ~ 100% (non-condensing) Humidity

## Interface

Antenna 2 x RSMA connector Power Terminal block LAN RJ45

#### **System Operation Mode**

■ EKI-6351-A - Bridge/Router/Mesh

#### **Other Features**

 DHCP Client/Server\*, Statistic routing table\*, RIP v1&v2\*, WMM, Multi-SSID (up to 16x ESSID for each radio), traffic limitation, IEEE 802.11h DFS, Syslog,L2 management utility, HTTP (s), Telnet, SSH, CLI, SNMP, installation utilities.

## **Modulation Techniques**

 IEEE 802.11a/n OFDM (BPSK, QPSK, 16-QAM, 64-QAM) DSSS (DBPSK, DQPSK, CCK) IEEE 802.11b IEEE 802.11g/n OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

### **Frequency Range**

USA 2.400 ~ 2.483 GHz, 5.15 ~ 5.25GHz, 5.725 ~ 5.825 GHz Europe 2.400 ~ 2.483 GHz, 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz China 2.400 ~ 2.483 GHz, 5.725 ~5.85 GHz

Note: radio is capable to be operated within FCC DFS2 band or ETSI/EC DFS band, or other countries which is regulating or is planning to regulate mid-5 GHz band. The usage of mid -5 GHz band is subject to the regulatory approval status.

#### **Certificates**

- EMC US FCC Part 15 Class B & C & E, Europe ETSI 301 489-1&17 Radio ETSI 300 328. ETSI 301 893. FCC 15.247

**Rail Traffic** EN50155, EN50121-1/-4

EN 60950

# **Ordering Information**

EKI-6351-A 802.11 a/b/g/n Wi-Fi Mesh AP/Station EKI-6351-U 802.11 a/b/g/n Wi-Fi Mesh AP/Station (EU)