



EAH2001-25



EAH2002-25



EAH2003-25

e-rake2000 Series MIMO OFDM Outdoor Radio 802.11a/b/g/n Multi-Hops Repeater

The e-Rake series are enterprise and carrier-grade 802.11N Outdoor Wireless radio, which offers customer a powerful MIMO-OFDM solution with robust and high performance design in both 2.4GHz and 5GHz ISM bands.

Multi-Hops Repeater in e-Rake Series offers customers a great solution for PTP / PTMP/ Hot zone applications by integrated multi-radios interfaces (up to 3* Radio modules) and Fast Data Switching technology from e-Rake.

This series is the most ideal solution for Service Providers to deliver carrier-grade wireless services to multiple market segments such as campuses, hospitality, healthcare, warehousing and wider metropolitan area deployments. Even in the NLOS environments, this series shows incredible efficiency on multi-hops repeating – truly throughput ≥ 100 Mbps and only ≤ 15 ms total latency after 10 extended hops.

Much different from the traditional Wi-fi that dropped 50% throughput per each extended hop and can't get reply from remote device after 5~6 hops for too long

Product Highlights

➤ Integrated Multi-radios interfaces on E-Rake Series platform.

Multiple radios interfaces were integrated by "Fast Data Switching" technology inside the e-Rake series platform. There are 3 models for options: EAH2001 (1*radio) / EAH2002 (2*radios) / EAH2003 (3*radios) and each radio interface can be configured independently to run different wireless connectivity missions.

➤ High efficiency transmission in multi-hops repeating

The backbone throughput will remain in a high level even after several hops repeating. (≥ 100 Mbps @ 10 hops), and the total latency is short as well (≤ 15 ms @ 10 hops)

➤ Flexible wireless backbone deployment options

Except the Fast data switching and integrated multi-radios interfaces, high output power MIMO-OFDM technology is also a key factor to support e-Rake Multi-hops repeater series to be the most Flexible wireless backbone deployment options

➤ Secure and efficient client connectivity

The nimble QoS (Quality of Service) configuration provides flexible management of user's access bandwidth of wireless connectivity. Perfect integrated with central RADIUS server and data encryption (WEP/WPA/WPA2), the e-Rake Multi-hops Repeater series provide a secure wireless connectivity for each client device.

Features:

- 802.11 a/b/g/n MIMO OFDM Radio
- Integrated Multi-Radio Interfaces
- Fast Data Switching Technology
- Real Aggregate TCP Throughput ≥ 320 Mbps @ 4x4 & 6x6 Base Station
- High Efficiency in Multi-hops Repeating
 - Low Throughput dropped (≥ 100 Mbps @ 10 hops)
 - Short Latency increased (≤ 15 ms @ 10 hops)
- Operate in 2.4GHz / 5GHz ISM Band
- IP-68 Water & Dust Resistant
- IEC61000-4-5 Surge Protection

Specifications

Interfaces and Standard

- Wireless Standard:
IEEE802.101a/b/g/n; IEEE802.11h (DFS)
- Wireless Interface:
EAH2001-25: N-type female connectors x 2
EAH2002-25: N-type female connectors x 4
EAH2003-25: N-type female connectors x 6
- Ethernet Standard
IEEE802.3 / 802.3u / 802.3a (1000 Base-T)
IEEE802.1d (STP)/ 802.1w (RSTP)/ 802.1s (MSTP)
IEEE802.1q (Vlan) / IEEE802.1p (Layer 2 QOS)
- Ethernet Interface:
10/100/1000 Base-T RJ-45 port with M25 cable gland

Security & Access Control

- Static WEP up to 152 bits
- WPA / WPA2 PSK / EAP with TKIP / CCMP AES based Encryption
- IEEE 802.1x EAP-MD5 / EAP-TLS / EAP-TTLS
- MAC Address ACL (Access Control List)
- Client access number control + client isolation
- Hidden ESSID
- Vlan priority + Bandwidth control

Management

- Web management (HTTPS) / Telnet / SSH / CLI commands
- SNMP V1/V2, standard / private MIBs
- Event syslog
- Management Vlan ID
- Time setting (Current time, time zone & NTP client)
- Firmware upgrade / downgrade via FTP / WEB / SNMP / Layer 2 / Batch process
- Ping watch dog
- Dual Configuration files / Factory Default
- Multiple Level Management

Electrical and Interface

- 48VDC Passive POE
- RJ-45 connector with M25 cable gland

- Power Consumption:
EAH2001-25: Max. 17W
EAH2002-25: Max. 21W
EAH2003-25: Max. 25W
- Surge protection: IEC61000-4-5 (4KV/2KA)

Physical Specifications

- Dimensions: 259 (H) * 250 (W) *75 (D) ; mm
- Weight: 1.98Kg
- Enclosure: Aluminum Die Casting
- Mounting: Pole / Wall; Stainless Steel

Environmental

- Operating temperature:
-35°C ~ 70°C (-31°F ~ 158°F)
- Storage temperature:
-40°C ~ 85°C (-40°F ~ 185°F)
- Humidity: Max 95% non-condensing
- Waterproof: IP-68 waterproof
- Wind survivability: 180km/h

Standard Package

- EAH2000-25 IEEE802.11a/b/g/n outdoor radio
- 48VDC Passive PoE Injector
- M25 Waterproof connector for SFTP cable
- Pole / Wall Stainless Steel mounting bracket Kit
- Power cord and 48VDC power adaptor
- Water-resistant adhesive tape
- Quick installation guide
- Installation CD

Warranty

- 1 Year

Compliant Standards

- FCC
- IEC61000-4-5 (4KV/2KA)

Specifications

RADIO SPECIFICATIONS	
Frequency	USA : 2.400 ~ 2.483 GHz / 5.15 ~ 5.35 GHz / 5.5 ~ 5.7 GHz / 5.725 ~ 5.825 GHz
	Europe: 2.400 ~ 2.483 GHz / 5.15 ~ 5.35 GHz / 5.47 ~ 5.725 GHz (*Most countries in Europe)
	Japan: 2.400 ~ 2.497 GHz / 5.15 ~ 5.35 GHz / 5.47 ~ 5.725 GHz
	China: 2.400 ~ 2.483 GHz / 5.725 ~ 5.85 GHz

Modulation	Data Rate	IEEE 802.11b		IEEE 802.11a		IEEE 802.11g	
		Output power	Rx Sensitivity	Output power	Rx Sensitivity (1Rx / 2Rx)	Output power	Rx Sensitivity (1Rx / 2Rx)
CCK	1~11Mbps	24(±1.5) dBm	-76~-92dBm	N/A	N/A	N/A	N/A
BPSK 1/2	6Mbps	N/A	N/A	24(±1.5) dBm	-82/-95 dBm	25(±1.5) dBm	-82/-95 dBm
BPSK 3/4	9Mbps	N/A	N/A	24(±1.5) dBm	-81/-95 dBm	25(±1.5) dBm	-81/-95 dBm
QPSK 1/2	12Mbps	N/A	N/A	24(±1.5) dBm	-79/-94 dBm	25(±1.5) dBm	-79/-94 dBm
QPSK 3/4	18Mbps	N/A	N/A	24(±1.5) dBm	-77/-91 dBm	25(±1.5) dBm	-77/-92 dBm
16QAM 1/2	24Mbps	N/A	N/A	24(±1.5) dBm	-74/-88 dBm	25(±1.5) dBm	-74/-90 dBm
16QAM 3/4	36Mbps	N/A	N/A	23(±1.5) dBm	-70/-85 dBm	24(±1.5) dBm	-70/-85 dBm
64QAM 2/3	48Mbps	N/A	N/A	22(±1.5) dBm	-66/-81 dBm	23(±1.5) dBm	-66/-82 dBm
64QAM 3/4	54Mbps	N/A	N/A	21(±1.5) dBm	-65/-79 dBm	22(±1.5) dBm	-65/-80 dBm

MCS Index	IEEE 802.11an /HT20				IEEE 802.11an /HT40			
	Data Rate (Mbps)		Output Power	Rx Sensitivity (1Rx / 2Rx)	Data Rate (Mbps)		Output Power	Rx Sensitivity (1Rx / 2Rx)
	GI=800ns	GI=400ns			GI=800ns	GI=400ns		
MCS0/8	6.5/13	7.2/14.4	24(±1.5) dBm	-82/-94 dBm	13.5/27	15/30	22(±1.5) dBm	-79/-90 dBm
MCS1/9	13/26	14.4/28.9	23(±1.5) dBm	-79/-92 dBm	27/54	30/60	22(±1.5) dBm	-76/-89 dBm
MCS2/10	19.5/39	21.7/43.3	22(±1.5) dBm	-77/-90 dBm	40.5/81	45/90	21(±1.5) dBm	-74/-87 dBm
MCS3/11	26/52	28.9/57.8	21(±1.5) dBm	-74/-87 dBm	54/108	60/120	20(±1.5) dBm	-71/-83 dBm
MCS4/12	39/78	43.3/86.7	20(±1.5) dBm	-70/-84 dBm	81/162	90/180	19(±1.5) dBm	-67/-80 dBm
MCS5/13	52/104	57.8/115.6	19(±1.5) dBm	-66/-80 dBm	108/216	120/240	18(±1.5) dBm	-63/-77 dBm
MCS6/14	58.5/117	65/130.3	18(±1.5) dBm	-65/-78 dBm	121/242	135/270	17(±1.5) dBm	-62/-75 dBm
MCS7/15	65/130	72.2/144.4	18(±1.5) dBm	-64/-76 dBm	135/270	150/300	17(±1.5) dBm	-61/-73 dBm

MCS Index	IEEE 802.11bn /HT20				IEEE 802.11bn /HT40			
	Data Rate (Mbps)		Output Power	Rx Sensitivity (1Rx / 2Rx)	Data Rate (Mbps)		Output Power	Rx Sensitivity (1Rx / 2Rx)
	GI=800ns	GI=400ns			GI=800ns	GI=400ns		
MCS0/8	6.5/13	7.2/14.4	25(±1.5) dBm	-82/-95 dBm	13.5/27	15/30	24(±1.5) dBm	-82/-95 dBm
MCS1/9	13/26	14.4/28.9	25(±1.5) dBm	-81/-95 dBm	27/54	30/60	24(±1.5) dBm	-81/-95 dBm
MCS2/10	19.5/39	21.7/43.3	25(±1.5) dBm	-79/-94 dBm	40.5/81	45/90	24(±1.5) dBm	-79/-94 dBm
MCS3/11	26/52	28.9/57.8	25(±1.5) dBm	-77/-91 dBm	54/108	60/120	23(±1.5) dBm	-77/-91 dBm
MCS4/12	39/78	43.3/86.7	24(±1.5) dBm	-74/-88 dBm	81/162	90/180	22(±1.5) dBm	-74/-88 dBm
MCS5/13	52/104	57.8/115.6	23(±1.5) dBm	-70/-85 dBm	108/216	120/240	21(±1.5) dBm	-70/-85 dBm
MCS6/14	58.5/117	65/130.3	22(±1.5) dBm	-66/-81 dBm	121/242	135/270	21(±1.5) dBm	-66/-81 dBm
MCS7/15	65/130	72.2/144.4	21(±1.5) dBm	-65/-79 dBm	135/270	150/300	20(±1.5) dBm	-65/-79 dBm

ADVANCED TECHNOLOGY

Watch dog
Integrated Multiple Radios management
Fast Data Switching
Intelligent Wireless Traffic Control
Against Co-band Interference
Multicast / Broadcast Storm Limitation
Intelligent Abnormal Reports

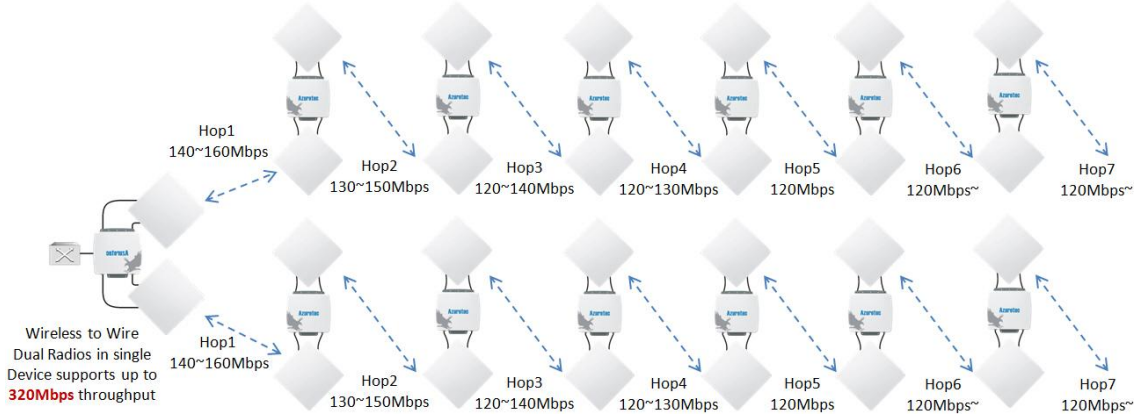
ORDERING INFORMATION

Model No.	Description	Output power	Real TCP Throughput
EAH2001-25	2.4/5GHz ISM Band 2x2 MIMO-OFDM Outdoor Radio (Multi-hops repeater)	25dBm @ QPSK	HT20MHz: 80~100Mbps HT40MHz: 160~200Mbps
EAS2001-25	2.4/5GHz ISM Band 2x2 MIMO-OFDM Outdoor Radio (Mesh)	25dBm @ QPSK	
EAMV2001-25	2.4/5GHz ISM Band 2x2 MIMO-OFDM Vehicle Unit (Mobility Mesh)	25dBm @ QPSK	
EAH2002-25	2.4/5GHz ISM Band 4x4 MIMO-OFDM Outdoor Radio (Multi-hops repeater)	25dBm @ QPSK	HT20MHz: 140~160Mbps HT40MHz: 280~320Mbps
EAS2002-25	2.4/5GHz ISM Band 4x4 MIMO-OFDM Outdoor Radio (Mesh)	25dBm @ QPSK	
EAMV2002-25	2.4/5GHz ISM Band 4x4 MIMO-OFDM Vehicle Unit (Mobility Mesh)	25dBm @ QPSK	
EAM2002-25	2.4/5GHz ISM Band 4x4 MIMO-OFDM Outdoor Radio (Mobility Mesh)	25dBm @ QPSK	HT20MHz: 140~160Mbps HT40MHz: 280~320Mbps
EAH2003-25	2.4/5GHz ISM Band 6x6 MIMO-OFDM Outdoor Radio (Multi-hops repeater)	25dBm @ QPSK	
EAS2003-25	2.4/5GHz ISM Band 6x6 MIMO-OFDM Outdoor Radio (Mesh)	25dBm @ QPSK	
EAM2003-25	2.4/5GHz ISM Band 6x6 MIMO-OFDM Outdoor Radio (Mobility Mesh)	25dBm @ QPSK	
A+CARE	2 Years Extension Warranty		

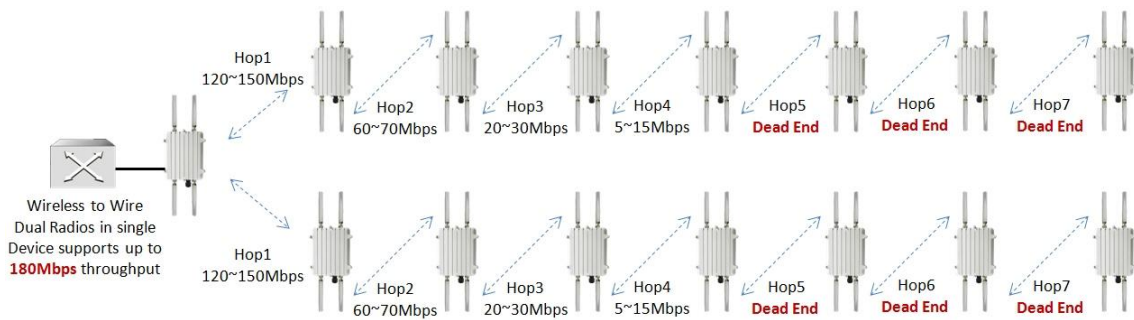
Comparison with other Technology

Most TDD Radio in the world lost **50% throughput** and **got 100% latency** in each repeating behavior. Basically, the repeating link will become dead-end after 5~7 hops, and that's why we developed e-Rake series to offer a better solution in multi-hops repeating application.

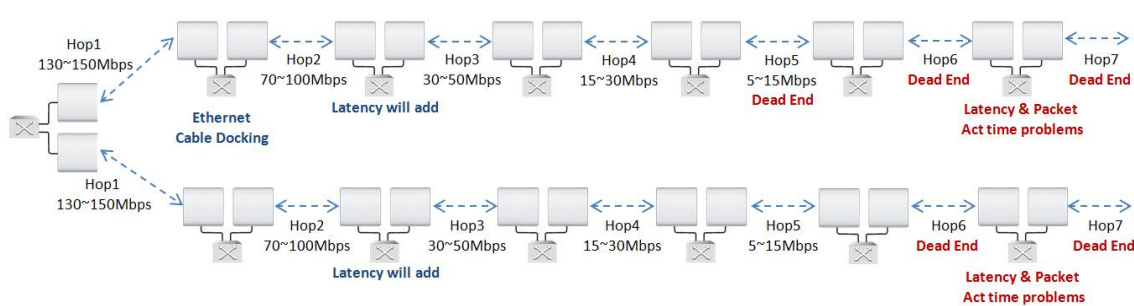
E-Rake Multi-hops Repeater 4x4 MIMO 11n radio (Dual RF) with Fast Data Switching



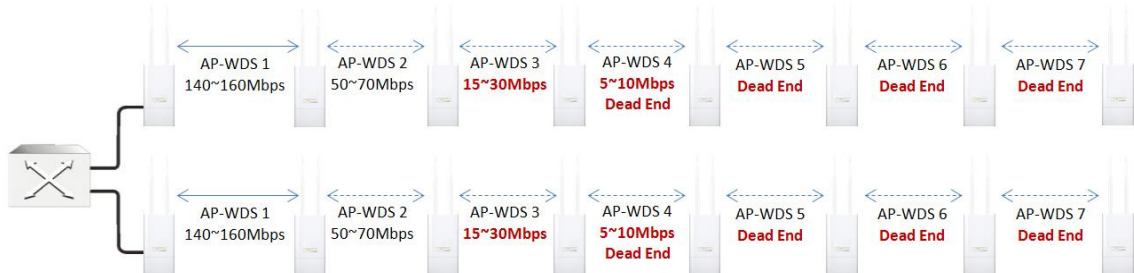
General 4x4 MIMO 11n radio (Dual RF) without Fast Data Switching



General 2x2 MIMO 11n radios back to back combined by a switch

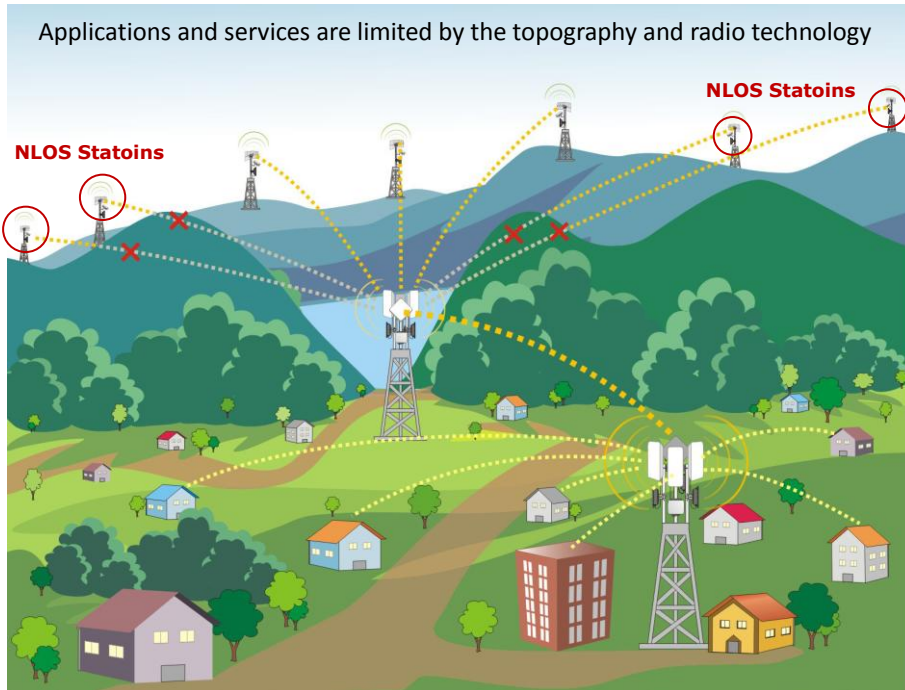


General 2x2 MIMO 11n radios with WDS repeater mode

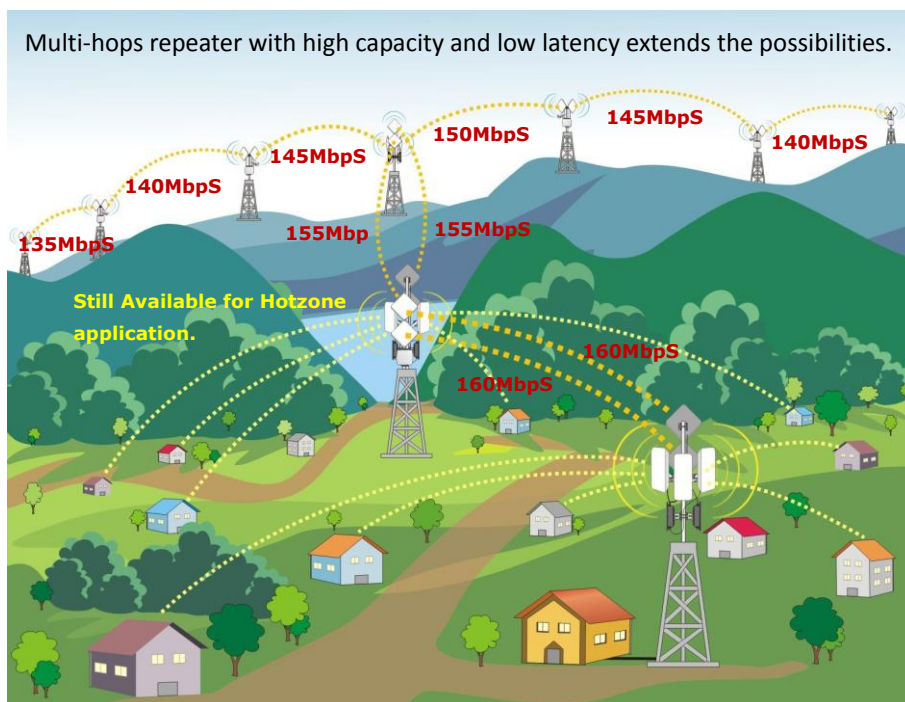


Applications

In Point to Multi-Points applications, signal might be blocked by hills, buildings or trees...etc.
Most of the TDD WiFi radios can't do anything but limits the possible application and services, because of the drop throughput and increased latency in repeater mode.



*General 2x2 MIMO 11n radios back to back combined by a switch.
Some remote stations are blocked by hills in PTMP structure.*



e-Rake Multi-hops Repeater 6x6 MIMO 11n radio (Dual RF) with Fast Data Switching and integrated multi-radio interfaces. All stations works perfectly with high capacity and low latency.



EAS2001-25



EAS2002-25



EAS2003-25

EAS2000 SERIES

MIMO OFDM OUTDOOR RADIO

802.11 A/B/G/N FIXED MESH NETWORK

The Eagle series are enterprise and carrier-grade 802.11 a/b/g/n outdoor wireless radios, which offers customers an outstanding MIMO-OFDM solution with robust and high performance design in both 2.4GHz and 5GHz proprietary bands.

Eagle - Fixed Mesh series supports complete wireless mesh networks with self-healing & self-forming features. Furthermore, the proprietary Multi-hops repeater technology from Azuretec enhances the throughput and low latency from the center to the edge of the network.

It's not only the wireless mesh junction point, but also may simultaneously support the wireless hotspot covering. That provides the ease and flexible installation and high performance audio/data/video services for the military, public safety, municipal wireless broadband networks. It's also an excellent solution for mining, transportation, manufacturing and other enterprise applications in harsh outdoor environments.

Features:

- **IEEE 802.11 a/b/g/n MIMO OFDM Radio**
- **Self-healing & Self-forming Mesh Network**
- **Mesh cloud - Multiple Mesh Gate Way**
- **Integrated Multi-Radio Interfaces**
- **Real Aggregate TCP Throughput \geq 320Mbps @ 4x4 & 6x6 Base Station**
- **High Efficiency in Multi-hops Repeating**
 - **Low Throughput dropped**
(\geq 100 Mbps @ 10 hops)
 - **Short Latency increased**
(\leq 15 ms @ 10 hops)
- **IP-68 Water & Dust Resistant**
- **IEG61000-4-5 Surge Protection**

Product Highlights

- **Self-healing & self-forming Mesh Protocol**

Automatic configuration and routing enables the mesh networks to be self-forming and self-healing. One or more fixed mesh nodes failed won't affect the normal operation of the network. Customers can build the reliable networks anywhere in very short time by this intelligent radio.
- **Integrated Multi-radios interfaces on Eagle Series platform.**

Multiple radios interfaces were integrated by "Fast Data Switching" technology from Azuretec inside the Eagle series platform. There are 3 models for options: EAS2001 (1*radio) / EAS2002 (2*radios) / EAS2003 (3*radios) and each radio interface can be configured independently to run different wireless connectivity missions.
- **High efficiency transmission in multi-hops repeating**

The backbone throughput will remain in a high level even after several hops repeating. (\geq 100 Mbps @ 10 hops), and the total latency is short as well (\leq 15 ms @ 10 hops)
- **Secure and efficient client connectivity**

The nimble QoS (Quality of Service) configuration provides flexible management of user's access bandwidth of wireless connectivity. Perfect integrated with central RADIUS server and data encryption (WEP/WPA/WPA2), the Eagle - Fixed Mesh series provides a secure wireless connectivity for each client device.

Specifications

Interfaces and Standard

- Wireless Standard:
IEEE802.101a/b/g/n; IEEE802.11h (DFS)
- Wireless Interface:
EAS2001-25: N-type female connectors x 2
EAS2002-25: N-type female connectors x 4
EAS2003-25: N-type female connectors x 6
- Ethernet Standard
IEEE802.3 / 802.3u / 802.3a (1000 Base-T)
IEEE802.1d (STP)/ 802.1w (RSTP)/ 802.1s (MSTP)
IEEE802.1q (Vlan) / IEEE802.1p (Layer 2 QOS)
- Ethernet Interface:
10/100/1000 Base-T RJ-45 port with M25 cable gland

Security & Access Control

- Static WEP up to 152 bits
- WPA / WPA2 PSK / EAP with TKIP / CCMP AES based Encryption
- IEEE 802.1x EAP-MD5 / EAP-TLS / EAP-TTLS
- MAC Address ACL (Access Control List)
- Client access number control + client isolation
- Hidden ESSID
- Vlan priority + Bandwidth control

Management

- Web management (HTTPS) / Telnet / SSH / CLI commands
- SNMP V1/V2, standard / private MIBs
- Event syslog
- Management Vlan ID
- Time setting (Current time, time zone & NTP client)
- Firmware upgrade / downgrade via FTP / WEB / SNMP / Layer 2 / Batch process
- Ping watch dog
- Dual Configuration files / Factory Default
- Multiple Level Management

Electrical and Interface

- 48VDC Passive POE
- RJ-45 connector with M25 cable gland
- Power Consumption:
EAS2001-25: Max. 17W
EAS2002-25: Max. 21W
EAS2003-25: Max. 25W
- Surge protection: IEC61000-4-5 (4KV/2KA)

Physical Specifications

- Dimensions: 259 (H) * 250 (W) *75 (D) ; mm
- Weight: 1.98Kg
- Enclosure: Aluminum Die Casting
- Mounting: Pole / Wall; Stainless Steel

Environmental

- Operating temperature:
-35°C ~ 70°C (-31°F ~ 158°F)
- Storage temperature:
-40°C ~ 85°C (-40°F ~ 185°F)
- Humidity: Max 95% non-condensing
- Waterproof: IP-68 waterproof
- Wind survivability: 180km/h

Standard Package

- EAS2000-25 IEEE802.11a/b/g/n outdoor radio
- 48VDC Passive PoE Injector
- M25 Waterproof connector for SFTP cable
- Pole / Wall Stainless Steel mounting bracket Kit
- Power cord and 48VDC power adaptor
- Water-resistant adhesive tape
- Quick installation guide
- Installation CD

Warranty

- 1 Year

Compliant Standards

- FCC
- IEC61000-4-5 (4KV/2KA)

Specifications

RADIO SPECIFICATIONS

Frequency	2.382 ~ 2.497 GHz 4.920 ~ 6.095 GHz						
Modulation	Data Rate	IEEE 802.11b		IEEE 802.11a		IEEE 802.11g	
		Output power	Rx Sensitivity	Output power	Rx Sensitivity (1Rx / 2Rx)	Output power	Rx Sensitivity (1Rx / 2Rx)
CCK	1~11Mbps	24(±1.5) dBm	-76~-92dBm	N/A	N/A	N/A	N/A
BPSK 1/2	6Mbps	N/A	N/A	24(±1.5) dBm	-82/-95 dBm	25(±1.5) dBm	-82/-95 dBm
BPSK 3/4	9Mbps	N/A	N/A	24(±1.5) dBm	-81/-95 dBm	25(±1.5) dBm	-81/-95 dBm
QPSK 1/2	12Mbps	N/A	N/A	24(±1.5) dBm	-79/-94 dBm	25(±1.5) dBm	-79/-94 dBm
QPSK 3/4	18Mbps	N/A	N/A	24(±1.5) dBm	-77/-91 dBm	25(±1.5) dBm	-77/-92 dBm
16QAM 1/2	24Mbps	N/A	N/A	24(±1.5) dBm	-74/-88 dBm	25(±1.5) dBm	-74/-90 dBm
16QAM 3/4	36Mbps	N/A	N/A	23(±1.5) dBm	-70/-85 dBm	24(±1.5) dBm	-70/-85 dBm
64QAM 2/3	48Mbps	N/A	N/A	22(±1.5) dBm	-66/-81 dBm	23(±1.5) dBm	-66/-82 dBm
64QAM 3/4	54Mbps	N/A	N/A	21(±1.5) dBm	-65/-79 dBm	22(±1.5) dBm	-65/-80 dBm

MCS Index	IEEE 802.11an /HT20				IEEE 802.11an /HT40			
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MCS3/11	26/52	28.9/57.8	21(±1.5) dBm	-74/-87 dBm	54/108	60/120	20(±1.5) dBm	-71/-83 dBm
MCS4/12	39/78	43.3/86.7	20(±1.5) dBm	-70/-84 dBm	81/162	90/180	19(±1.5) dBm	-67/-80 dBm
MCS5/13	52/104	57.8/115.6	19(±1.5) dBm	-66/-80 dBm	108/216	120/240	18(±1.5) dBm	-63/-77 dBm
MCS6/14	58.5/117	65/130.3	18(±1.5) dBm	-65/-78 dBm	121/242	135/270	17(±1.5) dBm	-62/-75 dBm
MCS7/15	65/130	72.2/144.4	18(±1.5) dBm	-64/-76 dBm	135/270	150/300	17(±1.5) dBm	-61/-73 dBm

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MCS6/14	58.5/117	65/130.3	22(±1.5) dBm	-66/-81 dBm	121/242	135/270	21(±1.5) dBm	-66/-81 dBm
MCS7/15	65/130	72.2/144.4	21(±1.5) dBm	-65/-79 dBm	135/270	150/300	20(±1.5) dBm	-65/-79 dBm

ADVANCED TECHNOLOGY

Watch dog

Integrated Multiple Radios management

Fast Data Switching

Intelligent Wireless Traffic Control

Against Co-band Interference

Multicast / Broadcast Storm Limitation

Intelligent Abnormal Reports

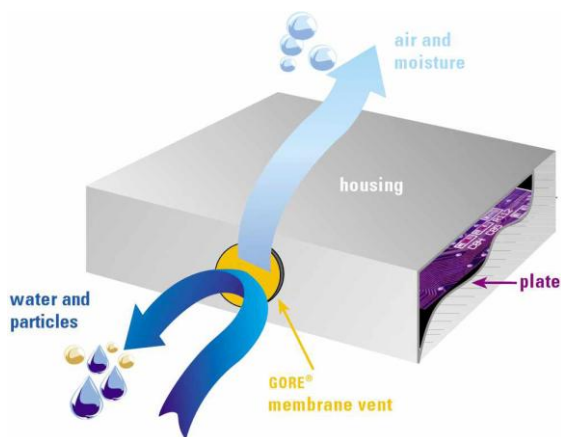
Mesh Cloud - Support Multiple mesh gateway

ORDERING INFORMATION

Model No.	Description	Output power	Real TCP Throughput
EAH2001-25	2.4/5GHz proprietary Band 2x2 MIMO-OFDM Outdoor Radio (Multi-hops)	25dBm @ QPSK	HT20MHz: 80~100Mbps HT40MHz: 160~200Mbps
EAS2001-25	2.4/5GHz proprietary Band 2x2 MIMO-OFDM Outdoor Radio (Mesh)	25dBm @ QPSK	
EAMV2001-25	2.4/5GHz proprietary Band 2x2 MIMO-OFDM Vehicle Unit (Mobility Mesh)	25dBm @ QPSK	
EAH2002-25	2.4/5GHz proprietary Band 4x4 MIMO-OFDM Outdoor Radio (Multi-hops)	25dBm @ QPSK	HT20MHz: 140~160Mbps HT40MHz: 280~320Mbps
EAS2002-25	2.4/5GHz proprietary Band 4x4 MIMO-OFDM Outdoor Radio (Mesh)	25dBm @ QPSK	
EAMV2002-25	2.4/5GHz proprietary Band 4x4 MIMO-OFDM Vehicle Unit (Mobility Mesh)	25dBm @ QPSK	
EAM2002-25	2.4/5GHz proprietary Band 4x4 MIMO-OFDM Outdoor Radio (Mobility Mesh)	25dBm @ QPSK	HT20MHz: 140~160Mbps HT40MHz: 280~320Mbps
EAH2003-25	2.4/5GHz proprietary Band 6x6 MIMO-OFDM Outdoor Radio (Multi-hops)	25dBm @ QPSK	
EAS2003-25	2.4/5GHz proprietary Band 6x6 MIMO-OFDM Outdoor Radio (Mesh)	25dBm @ QPSK	
EAM2003-25	2.4/5GHz proprietary Band 6x6 MIMO-OFDM Outdoor Radio (Mobility Mesh)	25dBm @ QPSK	
A+CARE	2 Years Extension Warranty		

The Membrane Vents Enhance the Reliability, Quality and Image of Your Products.

GORE™ Membrane Vents are designed to enhance the ingress protection (IP) of gasketed enclosures. The microporous expanded polytetrafluoroethylene (ePTFE) membrane continuously allows the free passage of gases and vapors, equalizing the pressure differential between the enclosure and ambient before it builds to the point that a seal is compromised. Water, dust, dirt, cleaning agents and most oils are repelled by the oleophobic membrane, thereby protecting expensive and sensitive electronics.



MEMBRANE VENT

- Water proof and dust proof to IP69K, protecting sensitive electronics.
- High airflow allows pressure equalization to prevent stress on enclosure seals, ultimately lowering enclosure design and manufacturing costs.
- Water and oil repellant ePTFE membrane is inert, non-shedding, chemically resistant, UV resistant and enclosed in a tough polyamide housing to ensure a long trouble-free service life even in extreme conditions.
- The microporous structure of the ePTFE membrane even keeps salt crystals from passing, minimizing electrical malfunctions caused by salt corrosion.
- Moisture vapor permeable to help aid in condensation and fogging reduction.
- Screw-in housing with silicone O-ring for versatile and easy installation.

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