Essen RFID your window to the interconnected world

ESSEN

Get the Xtenna™ Advantage

with

ERF-211E

Long-range Wireless Access Point/Client Bridge

Require a long-range wireless outdoor solution?

Multi-function scalable Wi-Fi for secure, enterprise services

a high performance outdoor Wi-Fi network connectivity solution – innovative technology for every business

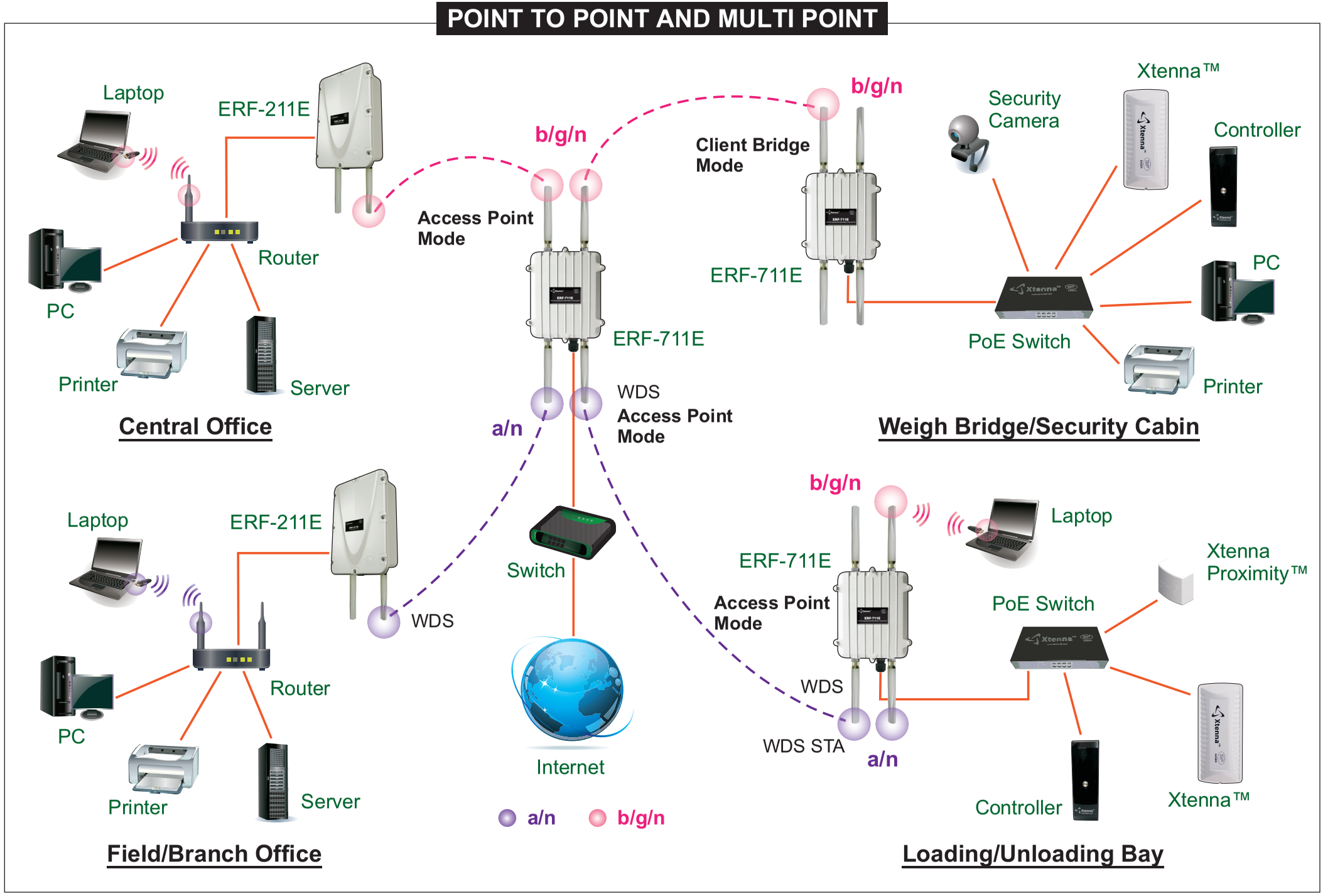
ERF-211E

- Powerful RF interface: 2.4GHz
- Configurable in 4 different operation modes: Access Point, Client Bridge, Client Router and WDS, along with advanced multi-function mode combinations
- Long-range transmitting links while reducing dead spots
- Maximum, multiple authentication and encryption security
- Designed for working in harsh outdoor environment: certified IP67 protection
- High performance enterprise product

A one-stop solution for all your RFID needs

Essen RFID – integrates, extends, improves, simplifies, fully scalable, saves cost, maximizes value; helps your business take the next step forward.

POINT TO POINT AND MULTI POINT



Multi-function scalable Wi-Fi for secure, enterprise services

ERF-211E equips with a powerful RF interface that fully supports 802.11b/g/n (2T2R). Offering certified IP-67 protection, it is designed to deliver reliable services under harsh outdoor environment.

The device has built-in advanced multi-functions that provide flexibility in constructing scalable WiFi networks for all possible applications. ERF-211E can be configured into 4 different operation modes: Access Point, Client Bridge, Client Router and WDS, with advanced multi-function combinations. It offers bandwidth up to 300Mbps with 2T2R 802.11n to accommodate demanding traffic services such as large file transfers and multimedia streaming. Offering excellent compatibility with existing wireless clients, the device also provides greater operational versatility and supports greater capacity than legacy single-band wireless solutions.

ERF-211E provides wide-range of authentication and encryption standards (including WEP, WPA, WPA2, TKIP/AES, IEEE 802.1X and MAC address filtering) to enforce maximum security. Additionally, its friendly security management user interface reduces configuration complexity. ERF-211E is a high performance enterprise product that is ideal for outdoor business requirements.

What makes the ERF-211E better?

FEATURES:

IEEE802.11n compliant 2T+2R high speed data transmitting rate up to 300Mbps.

Longer range transmitting, power and distance control.

Certified IP67 protection for reliable service under harsh outdoor environment.

Programmable high transmit output power.

Supports transparent bridging in WDS mode.

Gigabit Ethernet port for connection to existing wired network.

Built-in surge protection on all connectors.

Management Software for system administration & monitoring.

BENEFITS:

More operational versatility than legacy wireless APs.

Expands existing company networks by supporting greater capacity than legacy single-band networking solutions.

Excellent compatibility with all wireless clients.

Stable wireless connection over extended transmission range.

Allows flexibility in constructing scalable wireless networks for all possible applications.

Ideal for companies that are deploying more mobile Wi-Fi devices within their network.

Ideal for companies that require extensive outdoor roaming and working further away from office buildings.

Ideal for highly demanding traffic requirements such as large file transfers and multimedia streaming services.

Ideal for frequently altered or temporary environments.

ERF-211E – Technical Specifications

RF	Frequency Band	**802.11b/g/n**							
	Data Transfer Rate	300 Mbps with 2T+2R 802.11n							
	Antenna	2 x External N-type Connector + 2 x 5dBi Omni Antenna							
	Radio Frequency Band (Max. Power may depend on local regulations)	Channel	**802.11b (2.412 ~ 2.472GHz) (1 stream)**						
		Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps			
		Tx Avg. Power (± 2dBm)	29	29	29	29			
		Rx Sensitivity (± 2dBm)	-97	-95	-92	-89			
		Channel	**802.11g (2.412 ~ 2.472GHz) (1 stream)**						
		Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
		Tx Avg. Power (± 2dBm)	29	29	29	29	27	27	26	25
		Rx Sensitivity (± 2dBm)	-96	-93	-89	-85	-81	-79	-76	-75
		Channel	**802.11n (2.412 ~ 2.472GHz) (2 streams)**							
		Data Rate	MCS0/MCS8	MCS1/MCS9	MCS2/MCS10	MCS3/MCS11	MCS4/MCS12	MCS5/MCS13	MCS6/MCS14	MCS7/MCS15
		Tx Avg. Power (± 2dBm)	29	29	29	29	26	25	24	23
		Rx Sensitivity (± 2dBm)	-95	-92	-87	-85	-80	-79	-74	-73
Hardware	Standard	IEEE 802.11 b/g/n, Wi-Fi Certified							
	Memory	64MB							
	Flash	16MB							
	Physical Interface	1 x Gigabit Ethernet Port with PoE support 1 x Gigabit Ethernet Port							
	Power Requirements	Active Ethernet (Power over Ethernet) 802.3af/at support Power Adapter 48V / 0.8A							
Software	Operation Mode	Access Point / Client Bridge / Client Router / WDS							
	Wireless	Auto Channel Selection, Distance Control (802.1x Ack timeout), VLAN Function, BSSID, Multiple SSID (4 SSID), WDS AP / WDS Bridge / WDS Station							
	Security	WEP Encryption-64/128/152 bit, WPA/WPA2 Personal (WPA-PSK using TKIP or AES), WPA/WPA2 Enterprise (WPA-EAP using TKIP), MAC address filtering up to 50 fields, 802.1x Authenticator, Hide SSID in beacons, Wireless STA (Client) connected list							
	QoS	WMM							
Management	Configuration	Web-based configuration (HTTP)							
	Firmware Upgrade	Upgradable via web browser, settings retained after upgrade							
	MIB	MIB I, MIB II and Private MIB							
	SNMP	V1, V2c							
	Network Transport Protocol	PPTP (for VPN), PPPoE (for re-trying)							
	Reset and Backup	Reset to factory default, backup saves settings to file							
	Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI							
Environment/Mechanical	Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C							
	Humidity (non-condensing)	0%~90% typical							
	Waterproof	IP67							
	Weight	1468g							
	Dimensions	323mm (L) x 230mm (W) x 107mm (H)							

Essen reserves the right to modify specifications without notice.

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