

Get the
Xtenna™
Advantage

with

ERF-711E

Long-range Dual Radio
Concurrent Access Point

Require a
long-range wireless
outdoor solution?

Multi-function scalable Wi-Fi
for secure, heavy traffic services

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



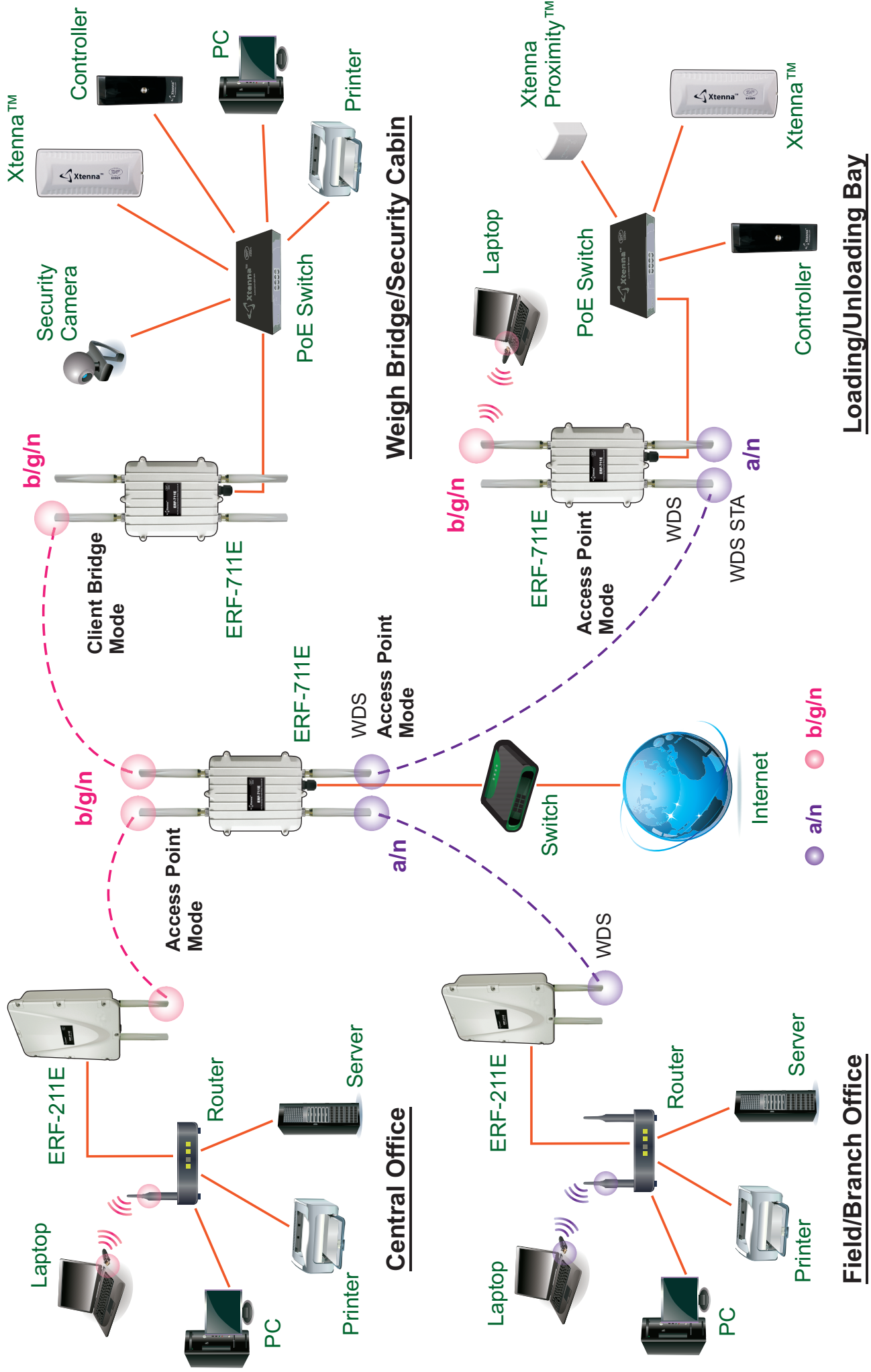
ERF-711E

- Dual band radio design with two powerful independent RF interfaces: 2.4GHz and 5GHz
- Each interface is configurable in 3 different modes: Access Point, Client Bridge and WDS, and in 5 multi-function mode combinations
- High speed data rate on both bands: 300Mbps, IEEE802.11n compliant
- Maximum, multiple authentication and encryption security
- Designed for working in harsh outdoor environment: certified IP68 protection
- True carrier-grade 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 MULTIPOINT



Loading/Unloading Bay

Multi-function scalable Wi-Fi for secure, heavy traffic services

ERF-711E equips with two powerful independent RF interfaces which support 802.11a/n (2T2R) and 802.11b/g/n (2T2R). Offering certified IP-68 protection, it is designed to deliver high reliability under harsh outdoor environment.

The device has built-in advanced multi-functions that provide flexibility in constructing scalable WiFi networks for all possible applications. With two individual interfaces, each can be configured into 3 different modes: Access Point, Client Bridge and WDS, with a maximum of 5 combinations. ERF-711E offers bandwidth up to 300Mbps per radio to accommodate heavy traffic services such as multimedia streaming. Establishing backbone network using 802.11a/n ensures stability and reduces interference while 802.11b/g/n offers great compatibility to all wireless clients.

ERF-711E 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-711E is a true carrier-grade product which is guaranteed to fulfill any business requirement.

What makes the ERF-711E better ?

FEATURES:

Dual band radio design enables independent configuration and operation on each RF band.

IEEE802.11n compliant with up to 300Mbps data rate on both 2.4GHz and 5GHz RF bands.

Longer range signal coverage, up to 500mW transmit power.

Certified IP68 protection suitable for harsh outdoor usage.

Supports transparent bridging in WDS mode.

Integrated dual-polarity internal MIMO antenna array.

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 single-band outdoor APs.

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

Enables simultaneous stable backbone network while offering great compatibility to all wireless clients.

Additional 5GHz band enables avoiding interference in heavily congested 2.4GHz environment.

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 video streaming.



ERF-711E – Technical Specifications

RF	Frequency Band	802.11a	5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725 ~ 5.825GHz
		802.11b/g	2.400 to 2.484 GHz
	Data Transfer Rate	300 Mbps per radio	
	Antenna	4 x N-type connector + 2 x 2.4GHz N-type Omni Antenna + 2 x 5GHz N-type Omni Antenna	
	Receive Sensitivity (Typical)	802.11n (5GHz)	-89dBm @ MCS0, -70dBm @ MCS7, -89dBm @ MCS8, -70dBm @ MCS15
		802.11n (2.4GHz)	-97dBm @ MCS0, -78dBm @ MCS7, -96dBm @ MCS8, -76dBm @ MCS15
Hardware		802.11a	-90dBm @ 6Mbps, -72dBm @ 54Mbps
		802.11g	-96dBm @ 6Mbps, -82dBm @ 54Mbps
		802.11b	-99dBm @ 1Mbps, -93dBm @ 11Mbps
	Available Transmit Power (Max. Power may depend on local regulations)	802.11n (5GHz) (± 2dBm)	26dBm @ MCS0~2/MCS8~10, 25dBm @ MCS3/MCS11, 24dBm @ MCS4/MCS12, 23dBm @ MCS5/MCS13, 23dBm @ MCS6/MCS14, 21dBm @ MCS7/MCS15
		802.11n (2.4GHz) (± 2dBm)	26dBm @ MCS0~2/MCS8~10, 26dBm @ MCS3/MCS11, 25dBm @ MCS4/MCS12, 24dBm @ MCS5/MCS13, 22dBm @ MCS6/MCS14, 21dBm @ MCS7/MCS15
		802.11a (± 2dBm)	26dBm @ 6~24Mbps, 25dBm @ 36Mbps, 24dBm @ 48Mbps, 23dBm @ 54Mbps
Software		802.11g (± 2dBm)	26dBm @ 6~24Mbps, 25dBm @ 36Mbps, 24dBm @ 48Mbps, 23dBm @ 54Mbps
		802.11b (± 2dBm)	26dBm @ 1~11Mbps
	Standard	IEEE 802.11 a/b/g/n, Wi-Fi Certified	
	Memory	64MB	
	Flash	8MB	
	Physical Interface	1 x RJ-45 for 10/100/1000 Gigabit Ethernet Reset Button in PoE Injector	
Management	Power Requirements	Active Ethernet (Power over Ethernet) Power Adapter 48V / 0.8A	
	Operation Mode	Access Point / Client Bridge / WDS for each radio	
	Wireless	Auto Channel Selection, Distance Control (802.1x Ack timeout), Narrow Bandwidth Selection, VLAN Function, BSSID, Multiple SSID (4), WDS AP / WDS Bridge, Multi-function (Dual AP, AP+CB, CB+AP, AP+WDS, WDS+AP)	
	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	
	Configuration	Web-based configuration (HTTP)/Telnet	
Environment/Mechanical	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	
	Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C	
Humidity (non-condensing)	0%~90% typical		
Waterproof/Dustproof	IP68		
Weight	1450g		
Dimensions	245mm (L) x 200mm (W) x 75mm (H)		

Essen reserves the right to modify specifications without notice.

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