

# The World's Smallest Dual Band Solution

## The Wi-Jack Duo® Access Point

### Enterprise Performance in a Compact Design

The Wi-Jack Duo is the latest innovation from Ortronics/Legrand, setting the standard for compact, unobtrusive access point design. This unique access point integrates easily into your structured cabling wherever wireless access is desired. Packaged discreetly behind a single gang faceplate, the Duo supports 802.11a/b/g for simultaneous 2.4 and 5 GHz operation at speeds up to 54 Mbps. The Wi-Jack Duo includes internal antennas mounted safely behind the faceplate; providing optimal performance while blending aesthetically into any environment. The Duo also has an optional embedded Ethernet port for network devices such as printers, security cameras and laptop computers. The Wi-Jack Duo is a cost-effective option for any new or retrofit wireless LAN deployment.

### Centrally Managed Thin Technology

Unlike conventional APs, the Wi-Jack Duo is not overburdened with performing wireless user authentication, security, and other resource intensive functions. The Wi-Jack intelligence is centralized within the Bluesocket family of wireless controllers to create a more manageable high performance wireless LAN solution for enterprises.

Role-based policy management and universal authentication functions take place within the BlueSecure controller, making the Wi-Jack Duo easy to deploy and manage. In addition, new standards and feature

upgrades are managed centrally at the wireless controller without requiring manual upgrades at each AP. Additional benefits include seamless support for roaming and low-latency handoffs between APs—making the Ortronics solution ideal for handling delay-sensitive applications such as multimedia and voice over wireless.

### Superior Management from Bluesocket

Wi-Jack Duo access points work together with BlueSecure controllers to provide trusted secure user access with greater administrative control and management. Simple zero-config access point deployment by Bluesocket enables automatic deployment of the Wi-Jack Duo with no need to touch your existing wired infrastructure. Dynamic RF™ is available on all Bluesecure controllers and automatically manages the RF environment, setting channel and power to ensure optimal performance avoiding noise and interference. In sensor mode, the Wi-Jack Duo supports built-in RF Intrusion capabilities to protect your network from rogue APs, wireless attackers, and zero-day threats. ■

## What you're getting

- Compact design fits in a standard single-gang wall outlet
- AP profile extends 12 mm from wall
- Dual-radio a/b/g support, with internal antennas
- Centrally managed thin AP
- Integrated 10/100 Ethernet port
- Ability to function as an air monitor in sensor mode
- Connection to structured cabling with a standard 110 termination



## Specifications

### ANTENNAS

Two tri-band omni-directional

Integrated, non-detachable

Antenna Gain

- 2.4~2.5GHz / 3 dBi
- 5.150 GHz / 3.9 dBi
- 5.350 GHz / 4.5 dBi

### RADIO SPECS-802.11A

Frequency Bands

- 5.150 ~ 5.250 GHz (lower band)\*
- 5.250 ~ 5.350 GHz (middle band)\*
- 5.500 ~ 5.700 GHz (ETSI band)\*
- 5.725 ~ 5.825 GHz (higher band)\*

\*Country specific

Radio Technology: OFDM

Modulation: BPSK, QPSK, 16-QAM, 64-QAM

MAC: CSMA/CA with ACK

Data Rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel

Transmit power: user configurable up to 50 mW

Operating Channels

- US: 7, Canada: 12, ETSI: up to 19

### RADIO SPECS-802.11B

Frequency Band

- 2.4 ~ 2.483 GHz (US, Canada & ETSI)
- 2.4 ~ 2.497 GHz (Japan)

Radio Technology: DSSS

Modulation: CCK, BPSK, QPSK

MAC: CSMA/CA with ACK

Data Rates: 1, 2, 5.5, 11 Mbps per channel

Transmit power: user configurable up to 100 mW

Operating Channels

- US & Canada: 11, ETSI: 13, Japan: 14

### RADIO SPECS-802.11G

Frequency Band

- 2.412 ~ 2.462 GHz (US, Canada)
- 2.412 ~ 2.472 GHz (ETSI)
- 2.412 ~ 2.484 GHz (Japan)

Radio Technology: OFDM

Modulation: CCK, BPSK, QPSK, 16-QAM, 64-QAM

MAC: CSMA/CA with ACK

Data Rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel

Transmit power: user configurable up to 100 mW

Operating Channels

- US & Canada: 11, ETSI: 13, Japan: 14

### MANAGEMENT

Network-wide AP management via

- CLI (SSH)
- WEB GUI

### ENCRYPTION (AP AND WIRELESS CONTROLLER)

WEP, WPA (w/TKIP), WPA2 (802.11i w/built-in hardware AES), SSID to VLAN mapping (up to 16), 802.1x support (for EAP MD5, TLS, TTLS, FAST, PEAP)

### INTERFACES

One 10/100Base-TX RJ-45 auto-sensing Ethernet Interface: (Backbone Port)

- Autosensing MDI/MDX
- PoE 48 V DC / 250 mA power-over-Ethernet (802.3af compliant)

One 10/100BaseTX User Port

- Autosensing MDI/MDIX
- Wired user port

### MECHANICAL DIMENSIONS

4.50" x 2.75" x 2.21"

Wall single-gang box

### VISUAL INDICATORS (LEDS)

Blue: AP Discovery

### POWER REQUIREMENTS

48 VDC/250 mA Power-over-Ethernet (802.3af compliant)

### ENVIRONMENTAL

Temperature

Operating: 0 to 40°C

Storage: -20 to 85°C

Humidity 5% to 95% (non-condensing)

### COMMUNICATION STANDARDS

Ethernet: IEEE 802.3 / IEEE 802.3u

Power Over Ethernet: IEEE 802.3af (Backbone Connector)

Wireless: IEEE 802.11a/b/g (Wireless Interface)

### SAFETY STANDARDS

UL® Listed (UL60950)

UL Listed (Canadian Electrical Code/CSA 22.2 No. 60950)

EN60950 / IEC60950

### ELECTROMAGNETIC COMPLIANCE STANDARDS

FCC Part 15 Class B

FCC Part 15 Class C 15.207/15.247

FCC Part 15 Class E 15.407

ICES-003 Class A

RSS 210 (CAN)

EN 61000-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4

EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

EN 55022, EN55024 (89/336/EEC)

ETS 300 328 (89/336/EEC), ETS 301 489 (89/336/EEC)

ETS 301 893



## Ordering Information

### Wi-Jack Access Points

OR-DUO-ABG	DUO AP, dual radio(a/b/g)
OR-DUOWJ-ABG	DUO AP w/ jack, dual radio(a/b/g)

### Wi-Jack Support Contract Options

AP-SS1	Wi-Jack Standard Support, 8x5, 1 Year
AP-SS3	Wi-Jack Standard Support, 8x5, 3 Year
AP-PS1	Wi-Jack Premium Support, 24x7, 1 Year
AP-PS3	Wi-Jack Premium Support, 24x7, 3 Year

### Warranty

90 days parts/labor\*

\*Extended with Wi-Jack AP support contract



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