

# Wi-Jack™ Duo Access Point

- ▶ 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
- ▶ Secure, integrated 10/100 Ethernet port
- ▶ Able to function as a dedicated air monitor
- ▶ Connects to structured cabling with standard 110 termination

## 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 new addition to the Wi-Jack family of access points 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 tri-band omni-directional antennas mounted safely behind the faceplate; providing optimal performance while blending aesthetically into any environment. The Duo also has an optional embedded 10/100 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, Wi-Jack Duos are not overburdened with performing wireless user authentication, encryption, and other resource intensive functions. The Wi-Jack intelligence is centralized within the wireless controller to create a more manageable scalable environment. 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. Critical configuration information, such as passwords, network settings or digital certificates, are stored in the controller, not the AP.

## Air Monitoring Enhances Security

Functioning as an air monitor, the Wi-Jack Duo allows administrators to monitor and protect the air. When in air monitor mode, the Duo listens on all RF channels to provide detection and protection against unwanted wireless intrusions. Rogue APs can be detected and contained from providing service, while wireless intrusions such as Denial of Service (DoS), Man-in-the-Middle, and other attacks can be detected and thwarted. Air monitors also provide RF monitoring and management capabilities allowing WLAN administrators to capture packets remotely and gain access to valuable RF spectrum information.



THE WORLD'S SMALLEST DUAL-BAND SOLUTION



## ■ Ordering Information

Product	WorkstationPorts	Part No.
Wi-Jack Duo AP	Yes	OR-AP-DUOWJ
	No	OR-AP-DUO



OR-AP-DUOWJ



OR-AP-DUO

## ■ Specifications

### Antennas

Two tri-band omni-directional  
Integrated, non-detachable

### Antenna Gain

- ▶ 2.4-2.5GHz / 3 dBi
- ▶ 5.150 GHz / 3.5 dBi
- ▶ 5.350 GHz / 4.3 dBi

Support for radio signal diversity

VSWR <2.5:1

### 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 & Canada: 12
- ▶ ETSI: up to 19
- ▶ Japan: 4

### 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
- ▶ WEB GUI
- ▶ SNMPv3

### Encryption Support (AP and wireless controller)

40-bit/64-bit/128-bit/152-bit WEP, TKIP, AES

### 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
- ▶ "Secure-jack" wired port

### Mechanical Dimensions

4.50" x 2.75" x 2.21"

Wall single-gang box

### Visual Indicators (LEDs)

Green: Ready/power on/off

Blue: 802.11a RF activity

Blue: 802.11b/g RF activity

### 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



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