



## data sheet

### BENEFITS

#### Dual band concurrent operation

Industry's first 2.4 GHz and 5.0 GHz concurrent wall switch allows for efficient meshing while streaming multiple applications simultaneously

#### Gigabit uplink

Maximizes the network capability to ensure seamless multi-client streaming connectivity

#### Ubiquitous connectivity for converged IP services

Multiple SSIDs, port-based VLANs and robust authentication options make the ZoneFlex 7055 ideal for supporting concurrent IP-based services such as VoIP, IPTV, high-speed Internet access and in-room device connectivity

#### Flexible deployment options

The ZoneFlex 7055 requires a single POE cable drop, reducing cabling, switch ports and power sourcing equipment or power adapter

#### Easy installation

Installs into any standard network wall jack, offering two Ethernet uplink options: RJ-45 connector and a 110 punch down block

#### Wall mounted, inconspicuous compact form factor for best aesthetics with universal form factor

Low profile design and front port access eliminates unsightly cabling and disruptive furniture placement

#### Integrated POE support eliminates more wires

Provides POE out to power devices such as IP-based VoIP phones eliminating the need for more power chords that clutter the environment

#### Plug and play for existing digital phones

Passthrough port allows native connectivity for existing digital phones or others

# ZoneFlex™ 7055

## MULTIPURPOSE DUAL BAND CONCURRENT 802.11n WIRED/WIRELESS WALL SWITCH

### High Performance 2x2:2 Integrated Wired/Wireless Wall Switch

The Ruckus ZoneFlex 7055 is the industry's first dual band concurrent wired and wireless wall switch that integrates high-speed 802.11n Wi-Fi into an ultra-sleek, low-profile design that can be quickly and discretely installed in a standard wall junction box.

Ideal for offering converged services within hotel guest rooms and university dormitories, the ZoneFlex 7055 provides an easy way to offer multiple connections into a single room without multiple cables.

The ZoneFlex 7055 delivers high performance 2.4 GHz and 5 GHz 802.11n wireless coverage and four wired Ethernet access connections that can be used to support a range of in-room IP device and user connectivity options. An additional pass-through port allows connectivity for digital phones that requires native access to an in-house PBX system.

An IEEE 802.3af-compliant POE port, up to 6.5 watts, powers devices such as IP telephones directly from the wall switch (with 802.3at input can output 13W). The ZoneFlex 7055 requires only a single POE cable drop thereby reducing cabling, switch ports, and power sourcing equipment.

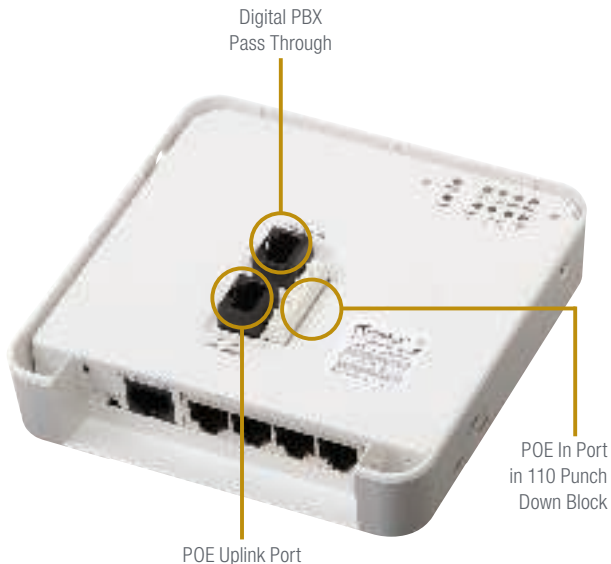
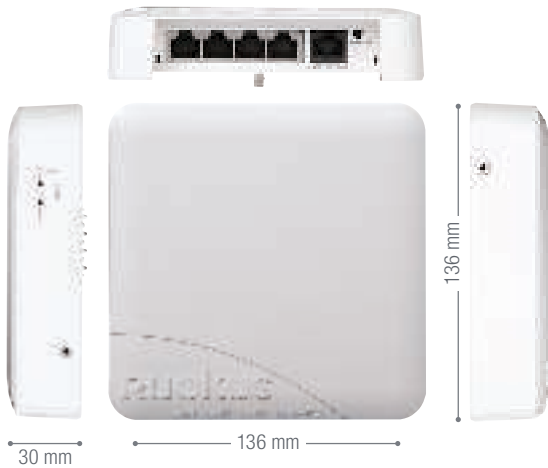
The ZoneFlex Wi-Fi Wall Switch is completely inconspicuous, minimizing the protrusion off the wall to make in-room cabling and furniture arrangement simple. Flexible deployment options allow the ZoneFlex 7055 to be easily installed via two uplink Ethernet options: an RJ-45 Ethernet jack or a 110 punch down block connection.

The ZoneFlex 7055 can be deployed as a standalone device or centrally managed by the Ruckus ZoneDirector or FlexMaster Wi-Fi system management platform.

With the ability to broadcast up to 8 SSIDs per radio, the ZoneFlex 7055 supports port-based VLANs. Authentication options include: 802.1x, MAC-based, captive portal, LDAP, RADIUS, Active Directory and through an internal user database.

# ZoneFlex™ 7055

## MULTIPURPOSE DUAL BAND CONCURRENT 802.11n WIRED/ WIRELESS WALL SWITCH



### FEATURES

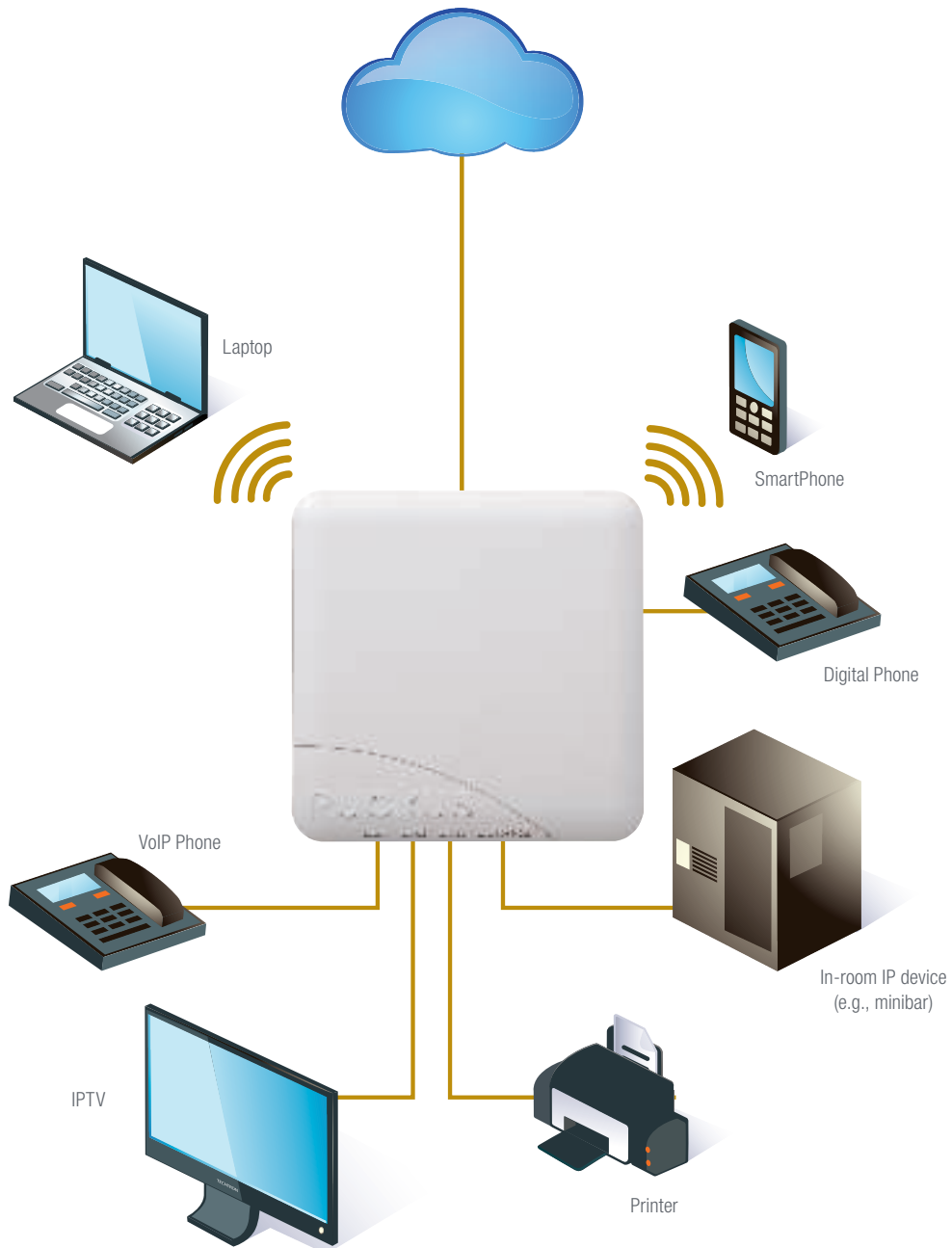
- Integrated 2x2:2 600 Mbps Wi-Fi AP and Ethernet wall switch
- Dual band 11n Wi-Fi and four Ethernet access ports offers HSIA with a Gigabit Ethernet uplink
- Wi-Fi Redundancy, in-room coverage
- Powered by either POE or 48 VDC
- Supplies POE power 6.5W or 13W
- SmartCast QoS
- 8 BSSIDs per radio with unique QoS and security policies
- WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i
- 802.1X support for RADIUS and Active Directory\*
- Zero-IT and Dynamic PSK\*
- Captive portal and guest accounts\*
- Mounts into standard US and EU single gang wall jack
- RJ-45 or 110 punch down block options for uplink Ethernet port
- One RJ-45 pass-through connection
- Universal form factor
- SmartMesh capable
- Torx screws to secure AP and provide security against opportunistic theft or tampering

\* with ZoneDirector

# ZoneFlex™ 7055

MULTIPURPOSE DUAL BAND  
CONCURRENT 802.11n WIRED/  
WIRELESS WALL SWITCH

## Converged Wired and Wireless Services



## Specifications

PHYSICAL CHARACTERISTICS	
POWER	<ul style="list-style-type: none"> <li>POE 802.3af/802.3at</li> <li>48VDC input</li> </ul>
POWER DRAW	<ul style="list-style-type: none"> <li>POE: Idle (3.6 w); Typical (4.5 w); Peak (6.5 w)</li> <li>DC-Powered: Idle (3.8 w); Typical (4.7 w); Peak (6.7 w)</li> </ul>
PHYSICAL SIZE	<ul style="list-style-type: none"> <li>13.6 cm x 13.6 cm (Square), 3 cm (Deep)</li> <li>NEMA 1 Type 1 / IP 20</li> </ul>
WEIGHT	<ul style="list-style-type: none"> <li>292 g (.64 Lbs.)</li> <li>392 g (.86 Lbs.) with bracket</li> </ul>
PHYSICAL PORTS	<ul style="list-style-type: none"> <li>4 10/100 Mbps Base-T 802.3, 802.3u, RJ-45 Ethernet access ports.</li> <li>1 10/100/1000Mbps Base-T 802.3, 802.3u, 802.3ab, 802.3af (802.3at Type 1) PoE input, Class 3. RJ-45 and punch down connector</li> <li>1 RJ-45 pass-through port; RJ45 to RJ45</li> </ul>
ENVIRONMENTAL CONDITIONS	<ul style="list-style-type: none"> <li>Operating Temperature: 32°F (0°C) - 122°F (50°C)</li> <li>Operating Humidity: 15% - 95% non-condensing</li> </ul>

RF	
PHYSICAL ANTENNA GAIN	<ul style="list-style-type: none"> <li>2 dBi (2.4 GHz); 3 dBi (5.0 GHz)</li> </ul>
MINIMUM RX SENSITIVITY	<ul style="list-style-type: none"> <li>Up to -90 dBm</li> </ul>

PERFORMANCE AND CAPACITY	
CONCURRENT USERS	<ul style="list-style-type: none"> <li>Up to 100</li> </ul>
VOICE CALLS	<ul style="list-style-type: none"> <li>Up to 30</li> </ul>

APPLICATIONS	
HOTSPOT	<ul style="list-style-type: none"> <li>WISPr</li> </ul>
VOICE	<ul style="list-style-type: none"> <li>802.11e/WMM</li> <li>U-APSD</li> </ul>

NETWORK ARCHITECTURE	
IP	<ul style="list-style-type: none"> <li>IPv4, IPv6, dual-stack</li> </ul>
VLANs	<ul style="list-style-type: none"> <li>802.1Q (1 per BSSID or dynamic, per user based on RADIUS)</li> <li>Port-based</li> </ul>
802.1X FOR ETHERNET PORTS	<ul style="list-style-type: none"> <li>Authenticator</li> <li>Supplicant</li> </ul>
TUNNELING	<ul style="list-style-type: none"> <li>L2TP, PPPoE</li> </ul>

MULTIMEDIA AND QUALITY OF SERVICE	
802.11e/WMM	<ul style="list-style-type: none"> <li>Supported</li> </ul>
SOFTWARE QUEUES	<ul style="list-style-type: none"> <li>Per traffic type (4), per client</li> </ul>
TRAFFIC CLASSIFICATION	<ul style="list-style-type: none"> <li>Automatic, heuristics and TOS based or VLAN-defined</li> </ul>
RATE LIMITING	<ul style="list-style-type: none"> <li>Dynamic, per-user or per-WLAN</li> </ul>

MANAGEMENT	
DEPLOYMENT OPTIONS	<ul style="list-style-type: none"> <li>Standalone (individually managed)</li> <li>Managed by ZoneDirector</li> <li>Managed by FlexMaster</li> </ul>
CONFIGURATION	<ul style="list-style-type: none"> <li>Web User Interface (HTTP/S)</li> <li>CLI (Telnet/SSH), SNMP v1, 2, 3</li> <li>TR-069 vis FlexMaster</li> </ul>
AUTO AP SOFTWARE UPDATES	<ul style="list-style-type: none"> <li>FTP or TFTP, remote auto available</li> </ul>

WI-FI	
STANDARDS	<ul style="list-style-type: none"> <li>IEEE 802.11a/b/g/n</li> <li>Dual band (2.4 GHz and 5 GHz) concurrent operation</li> </ul>
RADIO CHAINS	<ul style="list-style-type: none"> <li>2 x 2</li> </ul>
SPATIAL STREAMS	<ul style="list-style-type: none"> <li>2</li> </ul>
RF POWER OUTPUT (Aggregate)	<ul style="list-style-type: none"> <li>2.4 GHz: 22 dBm</li> <li>5.0 GHz: 19 dBm*</li> </ul>
FREQUENCY BAND	<ul style="list-style-type: none"> <li>802.11b/g/n: 2.4-2.484 GHz</li> <li>802.11a/n: 5.15-5.25 GHz; 5.25-5.35 GHz; 5.47-5.725 GHz</li> </ul>
OPERATING CHANNELS	<ul style="list-style-type: none"> <li>US/Canada: 1-11</li> <li>EU (ETSI X30): 1-13</li> <li>Channel availability is country dependent according to the local regulations</li> <li>5 GHz Channels</li> </ul>
BSSID	<ul style="list-style-type: none"> <li>8 BSSIDs per radio</li> </ul>
WIRELESS SECURITY	<ul style="list-style-type: none"> <li>WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i</li> <li>Authentication via 802.1X with ZoneDirector, local authentication database, support for RADIUS, LDAP, and Active Directory</li> </ul>

\* Maximum power varies by country  
 \*\*See price list for latest country certifications

## Product Ordering Information

MODEL	DESCRIPTION
<b>ZoneFlex 7055 Wi-Fi Wall Switch</b>	
901-7055-XX01	Dual band Wi-Fi Wall Switch
<b>Optional Accessories</b>	
902-0170-XX10	Power Supply (Qty. 10)
902-0111-0000	Adjacent wall plate jacket

PLEASE NOTE: When ordering you must specify the destination region by indicating -US, -CN, or -WW instead of XX.

