Enterprise Grade Wireless

An enterprise grade wireless solution is composed of wireless access points and a controller - the command and control hub for the network’s APs. Pakedge wireless access points offer a high-power solution for any network, broadcasting 802.11ac high speed wireless at incredibly high range. These wireless access points can be installed almost anywhere, thanks to their ability to be powered by PoE+ and versatile form-factors that allow them to be mounted on walls or ceilings. Multiple SSIDs segment data traffic, providing a smoother wireless experience overall. A separate guest network gives internet access to visitors without compromising overall security.
**WK-1**

2x2 AC Wireless Access Point

High Powered AC Wireless

The WK-1 2×2 AC wireless access point provides high-speed, high-range wireless AC networking. Because it is designed with dual-LAN ports, users can daisy chain WK-1s for easy installation, even without access to network ports. Its 2×2 high powered technology brings blazing fast speeds, even at high ranges.
The WX-1 boasts the features and functionality of the WK-1, while bringing Pakedge AC wireless to the next level. An additional radio enables higher throughput, perfect for dense urban or corporate environments, while the ability to flush-mount the AP into a wall or ceiling removes the need for a separate in-ceiling AP entirely. High-powered gigabit wireless networking ensures high-speed wireless networking with less need for roaming for a skip-free, lag-free wireless experience.
Higher Effective Range
AC Wireless Access Points provide higher throughput and greater usable range. This reduces the number of access points needed for a project.

3x Faster
The 802.11ac WK-1 is 3x faster than previous generation N wireless, while the WX-1 displays speeds up to 5x of the generation N wireless. Dual radios in a 2x2 configuration enable traffic to be routed through two separate streams simultaneously while the wider 80 MHz channel enables more information to be transmitted.

Traffic Segmentation
Pakedge Zones™ enable the processing of segmented network traffic through an intuitive point and click interface.

More Clients
AC Access Points support 4x as many signals, thereby increasing channel capacity. Each wireless-AC WAP supports twice as many clients.

More Bandwidth
AC Access Points support channels that are twice as wide (80 MHz), allowing it to carry more information to be transmitted.

Seamless Voice and Video Streaming
AC Access Points incorporate TruStream™ technology to automatically recognize and prioritize latency sensitive voice and video ahead of other network traffic for seamless performance.
Complexity Simplified

An intuitive GUI based menu simplifies access point setup and maintenance. The menu design is similar across Pakedge devices for a simplified installation and management experience.

Architectural Aesthetics
Easy Wall or Ceiling Mount

Included wall and ceiling mount brackets allow the WK-1 and WX-1 to quickly and easily mount to standard or drop-tile style ceilings and walls. With just a few screws, the WK-1 and WX-1 can be easily and safely secured in moments.

In-Wall or In-Ceiling (WX Only)

With the In-Ceiling bracket (sold separately), the WX-1 can be mounted flush with any wall or ceiling for a nearly invisible look without loss of performance.

Decide what’s right for you

<table>
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<tr>
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<th>WK-1</th>
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<td>MIMO</td>
<td>2x2</td>
<td>3x3</td>
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<td>Mounting Style</td>
<td>Desk, On-Wall, On-Ceiling</td>
<td>Desk, On-Wall, On-Ceiling, In-Wall, In-Ceiling</td>
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<td>Throughput vs N</td>
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<td># SSIDs</td>
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<tr>
<td>Guest SSIDs</td>
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<td>Channel Widths</td>
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<td>20MHz, 40MHz, 80MHz</td>
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<tr>
<td>Color</td>
<td>Black, White</td>
<td>Black, White</td>
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</tbody>
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Custom Engineering

The WK-1 and WX-1 are Pakedge Custom Engineering-ready, allowing dealers to create their own, customized configurations and co-branding for a simple, plug-and-play out of the box experience. Contact sales@pakedge.com for more information.
True Wireless Harmony

In a network without a wireless controller, the wireless access points are unaware of each other and act independently - resulting in sub-optimal network performance, coverage gaps, and unreliable connectivity. AP settings may not be applied consistently throughout the network - leading to incompatible policy application and enforcement, and potential problems with rogue access points and devices.

The C36 eliminates these problems by working in conjunction with up to 30 Pakedge Wireless Access Points. The C36 Wireless Controller serves as the command, coordination, and control center of a wireless network with multiple access points. It provides seamless, scalable, reliable wireless network access by managing each access point and optimizing wireless coverage with a suite of performance enhancing technologies.

Unified, Seamless Coverage

The C36 utilizes adaptive wireless technologies to allow a unified team of access points to work in conjunction with one another, creating a more seamless wireless environment with fewer dead zones between APs. SmartWav™ technology mitigates interference, enabling higher effective ranges with greater throughput and alleviates connectivity issues that occur when wireless signals overlap. With fewer handoffs, users will enjoy a wireless experience with fewer dropped connections.
Key Features

Optimized Wireless
The C36 continuously scans the local environment to adapt and optimize wireless performance, using TruStream™, SectorMaxx™ and SmartWav™ technologies. This enhances speed and coverage while mitigating interference across the entire site.

Fast Synchronized Deployment
Automatic detection and configuration of APs, site surveys, a GUI wizard, heat maps, and visualization tools make deploying expanding a network simple.

Enhanced Security
The ability to establish, push, and manage security settings across the network, integrated individual device blocking, guest access and Wi-Fi broadcast scheduling prevents security holes and provides a unified, secure wireless network.

Simple Management
Configure and manage up to 30 APs from any device on the network, all on one page. Setup, manage and maintain the network in minutes.

Centralized Reporting
Quickly and easily obtain information about any access point or client device on the network, including device and system logging. Integrates with the Pakedge Cloud Management System for visibility and management using any device, anywhere, anytime.

C36
Macrocell Controller
Advanced Features

- Firmware Update Via Cloud
- Intuitive Setup Wizard
- One Touch Performance Optimization
- Site Survey
- Heat Map
- Band Steering
Device Blocking
Centralized Guest Maintenance
Wireless Scheduling
One Step Backup and Restore
MAC Filtering
Centralized Guest Maintenance
## C36 Specifications

### Interface
- **Total Network Interfaces**: 2
- **Auto MDIX auto-sensing**: 10/100/1000 (Copper, RJ-45)
- **Console Port (Copper, RJ-45)**: 1
- **USB Interfaces**: 2 (USB 2.0)
- **HDMI Interfaces**: 1

### Dimensions
- **Height x Width x Depth**: 1.675in x 17.026in x 9.202in (4.254cm x 43.246cm x 9.202cm)
- **Weight**: 7.35lbs (3.33kg) - Controller
- **9.7lbs (4.39kg) - Packaged
- **1U Rack Mountable**: Yes

### System Performance
- **Managed APs**: Up to 30
- **WLANs**: Depends on AP

### Multimedia & Quality of Service
- **802.11e/WMM**: Supported
- **Client Load Balancing**: Supported (v2)
- **Client Capacity Limit**: Supported (v2)
- **Suppressed SSIDs**: Supported

### Environment
- **Power Input**: 110-240v AC
- **Power Consumption**: 55w
- **Operating Temp**: 0° - 40°C (32° - 113°F)
- **Operating Humidity**: 95% non-condensing
- **Storage Temp**: -20° - 80°C (-4° - 176°F)
- **Storage Humidity**: 95% non-condensing

### Management
- **Configuration**: Web user interface, CLI, SNMP v1, v2, v3
- **AAA**: RADIUS (v2)
- **AP Provisioning**: Auto-upgrade, Auto channel & power optimization, VLAN tagging, Spanning Tree, Heat Map (v2)
- **Centralized Management**: Supported
- **Centralized Reporting**: Supported

### Security
- **Standards**: WEP, WPA, WPA2, IPv4, IPv6, PSK (v2), AES
- **Intrusion Detection**: Rogue AP Detection
- **MAC Filtering**: Supported
- **Guest Network**: Supported

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## Access Point Specifications

### Access Point
- **WK-1**: WK-1 Access Point, Ethernet Cable, Power Supply Adapter, RJ45 clip, Torx screw driver, Rubber feet, Wall mount kit, T-Bar mounting adapter, Quick Start Guide
- **WX-1**: WX-1 Access Point, Ethernet cable, Power supply adapter, RJ45 clip, Torx screw driver, Rubber feet, Wall mount kit, T-bar mounting adapter, Quick Start Guide

### Environment
- **Power Input**: 110-240v AC
- **Power Consumption**: 55w
- **Operating Temp**: 0° - 45°C (32° - 113°F)
- **Operating Humidity**: 95% non-condensing
- **Storage Temp**: -25° - 60°C (-13° - 140°F)
- **Storage Humidity**: 10%-90% non-condensing

### Management
- **Configuration**: Web user interface, CLI, SNMP v1, v2, v3
- **AAA**: RADIUS (v2)
- **AP Provisioning**: Auto-upgrade, Auto channel & power optimization, VLAN tagging, Spanning Tree, Heat Map (v2)
- **Centralized Management**: Supported
- **Centralized Reporting**: Supported

### Package Contents
- **C36 Wireless Controller, Console Cable, Rack Mounting Hardware, Power Cable and Quick Start Guide**

### Warranty
Pakedge Device & Software offers a 3-year limited warranty. Pakedge Device & Software will repair or replace products that do not perform as specified within 3 years of the date of purchase due to a defect in materials, workmanship, or functionality.
Wall Mounting Bracket Specifications

Drop Ceiling T-Bar Mount

Dimensions in Inches

pakedge device & software inc
About Pakedge Device & Software
Pakedge is an industry leading manufacturer of high performance end-to-end networking platforms for residential and commercial A/V applications. Recognized by industry peers and winner of the prestigious CEPro Brand Leader award for Networking in 2013 and 2014, Pakedge specializes in integrating high performance engineering innovations, operational simplicity, and systems engineering to develop technology that enables customers to unleash the power of their network.

Connect+ Certified
The Pakedge Connect+ Platform is a carefully integrated system of switches, routers, wireless, power management and software technologies, designed specifically to work with each other to deliver seamless, scalable, and reliable multimedia networking performance. When unified with the BakPak Cloud Management System, the functionality of the Pakedge Connect+ Platform is extended with cloud-enabled services such as monitoring and management of all connected devices anywhere, any time, and from any device.

Why Pakedge?
- Purpose-built for A/V networking applications
- Enterprise-level performance
- Seamless, scalable, and reliable
- End-to-end network system solutions
- Free lifetime technical support
- Free lifetime firmware updates and functionality support