

WP Series - Sales Kit Overview and Basics

About the WP Series of Cordless Wi-Fi IP Phones

The WP series provide portable Wi-Fi phones that come equipped with integrated dual-band 802.11 Wi-Fi support, an advanced antenna design, and roaming support. All of our devices offer extended battery life and HD voice with dual-MICs. The WP800 series has a powerful combination of features, mobility, and durability to suit all portable telephony needs.

Product Positioning

The WP series is a portable Wi-Fi IP phone designed to suit a variety of enterprises and vertical market applications, including retail, logistics, medical and security.



Up to 3 Lines,
3 SIP Accounts



Rechargeable battery
with up to 12-hour talk
time



HD voice & dual MIC
design with AEC Noise
Shield Technology



Configurable button for
push-to-talk

Competitive Features

- Dual-band Wi-Fi with efficient antenna design and advanced roaming support
- Configurable button for push-to-talk
- Up to 3 SIP accounts, 3 lines
- HD voice & dual MIC design with AEC and Noise Shield Technology
- Rechargeable battery, up to 8 hour talk time and up to 200-hour standby
- Micro USB port and 3.5mm headset jack

WP800 Key Technical Specifications

	WP810	WP816	WP820	WP822	WP825	WP826
Graphic	1.8 inch (128x160) TFT color LCD	1.7 inch (128x160) MWI color LCD	2.4 inch (240x320) TFT color LCD	2.4 inch (240x320) TFT color LCD		2.4 inch (240x32) MWI color LCD
Wi-Fi	802.11 a/b/g/n/ac (2.4GHz & 5GHz)	802.11 a/b/g/n/ac/ax Wi-Fi 6	802.11 a/b/g/n (2.4GHz & 5GHz)	802.11 a/b/g/n/ac (2.4GHz & 5GHz), 802.11r		802.11 a/b/g/n/ac/ax Wi-Fi 6
Softkeys	2 Softkeys		3 Softkeys			
Bluetooth	No	Yes				
SIP Accounts	2 SIP Accounts					3 SIP Accounts
Push-to-Talk	Yes					
HD Audio	HD Voice & dual MIC design with AEC Noise Shield Technology					
Wi-Fi and System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, WPA3, WPA3 Enterprise, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device					
Voice Codecs	Support for G.711µ/a, G.729A/B, G.722 (wide-band), iLBC, Opus, in-band and out-ofband DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, A/B, AGC, ANS					

WP Series Cordless Wi-Fi IP Phones Differentiators

The Most Affordable Wi-Fi Phone on the Market

- **Retail Price** - Competitive price point across the series allows for flexible deployments
- **Simple and Manageable Scalability** - Virtually no limit to Wi-Fi call capacity
- **Superior to DECT** - Greater quality, reliability, capacity, security, roaming, provisioning & simplicity
- **Seamless Roaming** - Roam anywhere in a Wi-Fi environment; WP822 adds extra roaming support
- **AP Optimization** - Pairs with GWN series APs for optimized quality, security and roaming
- **Powerful Integrations** - Use with Grandstream door access, intercom/PA, IP cameras & more
- **Wi-Fi 6 Design** - The WP816 and WP826 support Wi-Fi 6 capabilities
- **Ruggedized Design** - WP825 delivers a ruggedized IP67 design with 2.5 meter drop-safe technology



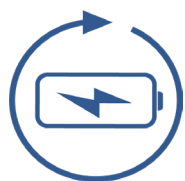
Roaming Support

- Supports advanced Wi-Fi roaming protocols Pairwise Master Key (PMK) Caching & Opportunistic Key Caching (OKC)
- WP822, WP825, WP816, and WP826 support roaming protocols 802.11r
- GWN series APs offer QoS to prioritize WP800 series devices when roaming through a wireless environment



Advanced Security

- Supports advanced security protection, including AES encryption, secure boot, unique security certificates per device and random default passwords.
- Much stronger security than any comparable DECT solution



Superior Battery Life

Offers up to 12 hours talk-time and 240-hour stand-by thanks to efficient mAh batteries, therefore eliminating the traditional battery concern with Wi-Fi IP phones.



Auto-Provisioning

Supports mass provisioning down to each individual configuration parameter.



Push-to-Talk

Configurable Push-to-Talk button adds a powerful instant communication and security feature.

Comparing to DECT Solutions

- Easier to scale - just add Wi-Fi access points
- No limit to roaming within a Wi-Fi environment
- Virtually no limit to call capacity
- Much greater call quality due to larger capacity
- Supports mass provisioning
- Advanced security encryption
- See page 5 for more details on DECT vs. Wi-Fi

	Wi-Fi and WP Solution	DECT Solution
Call Capacity	Virtually no limit	DECT channels limit concurrent calls to 5-10
Roaming	No limit within Wi-Fi networks	- Limited base station range (50m indoors) - Multi-cell systems needed for roaming
Scalability	Unlimited, just add Wi-Fi APs	Requires many base stations and complicated multi-cell controllers
Provisioning	Supports mass provisioning	Notoriously difficult to provision
Security	Bank-grade SIP encryption	Limited, outdated security

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Deployment Scenarios

Business / Enterprise

Office Mobility - Wireless connectivity anywhere in an office

Scalability - Affordably scale wireless VoIP platforms to no limit just by adding Wi-Fi APs

Roaming - The best Wi-Fi roaming support in the industry

Streamlines Maintenance - Wireless VoIP eliminates most wiring and streamlines maintenance

Easy Deployment and Expansion - Add a phone simply by connecting it to the Wi-Fi network



Education

Affordable - Cost is often the biggest factor in education

Affordable Scalability - No barriers to scale, just add APs

Wireless Facility Control - Control building access and receive security alerts on a WP800 device

Roaming support - Ensures a WP800 seamlessly roams from AP to AP in any large school, college, or university

Push-to-Talk - Instantly communicate with other users, creating a powerful security tool for a school



Retail Store

Store Mobility - Wireless connectivity anywhere in the store

No Wiring - Build a voice communication platform without needing to run wires all over the store

Roaming - Ideal for large stores and warehouses

Wireless Facility Control - Control access to freight and delivery locations with the WP800 series and GDS series

One Solution - Run a store's Wi-Fi data network and voice/video network on the same solution of APs



Warehouse

Mobility - Keep workers connected throughout the entire warehouse with a phone on their belt

Roaming - The WP800's advanced roaming support makes it ideal for large warehouses where roaming is required

Wireless Facility Control - Control access to freight and delivery locations with the WP800 and GDS series

Push-to-Talk - Instantly communicate with other users, creating a powerful security tool for a busy warehouse

IP67 and Drop-Safe - WP825 ruggedized design ideal for warehouse floors



WP Series Cordless Wi-Fi IP Phones

Integrations with other Products

GWN Access Points

- The WP series of cordless Wi-Fi IP phones can work with any access point. However, the GWN series of access points have a few benefits over other brands, such as specified bandwidth roaming support, quicker device recognition, and faster AP hand-off
- Grandstream access points have a variety of features that are beneficial



to voice-over-Wi-Fi applications, such as advanced Quality of Service that helps prioritize bandwidth

UCM Solutions

- Grandstream's WP800 cordless Wi-Fi phones integrate with UCM IP PBX solutions as a great endpoint choice for Wi-Fi voice deployments, keeping a unified communications solution mobile
- The WP800 devices can be configured and managed entirely remotely from Grandstream Device Management System, our cloud-based provisioning service
- Thanks to UCM RemoteConnect's NAT Firewall Traversal feature, WP800 devices can even be brought home, connected to a local Wi-Fi network, and be used as an at-home device



IP Phones

- The push-to-talk feature with the WP series can serve as a "walkie-talkie" feature when paired with either other WP cordless IP phones or desktop IP phones
- When using a Grandstream UCM solution, the same extension that is on a user's desk phone can also be on the user's WP800 device, enabling them to move away from their desk while still having access to essential communications

Facility Management

- The GDS series of facility access systems are capable of integrating with the WP series by placing calls to a WP800 device, in which the accompanied door of the GDS can be unlocked via a softkey on the WP cordless Wi-Fi IP phone
- For deployment verticals such as retail and warehouses, the push-to-talk capability on the WP series can be used to place quick announcements through overhead Grandstream GSC intercoms and speakers



WP Series Cordless Wi-Fi IP Phones Comparison vs. DECT solutions

Greater Scalability, Quality and Capacity; Similar Costs

- **Simple Scalability** - no dedicated DECT base stations, repeaters or multi-cell systems - just add APs
- **No Roaming Limit** - extremely limited range with DECT, Wi-Fi is immersive
- **Greater Call Quality & Capacity** - DECT voice channels restrict concurrent calls to 5-10, no Wi-Fi limitation
- **More Secure** - DECT is old technology with basic security
- **Supports mass provisioning** - DECT is notoriously complicated to provision
- **Comparable costs** - Wi-Fi offers similar costs to DECT but is of superior quality



	WP Wi-Fi Solution	DECT Solutions
Call Capacity	Virtually no limit	Limited to 5-10 concurrent calls in any area <i>-Most DECT channels restrict concurrent calls to 5-10</i>
Roaming	No limit on how far a handset can roam within a Wi-Fi environment. <i>-No extra equipment needed for roaming</i>	Limited base station range <i>-Complicated multi-cell controllers and many DECT base stations needed for roaming</i>
Scalability	Unlimited, just add Wi-Fi APs	Limited and Complicated <i>- Most DECT base stations can manage 5-15 handsets</i> <i>-Scaling requires expensive multi-cell and repeater systems</i> <i>- 5-10 concurrent call per base station</i>
Provisioning	Supports mass provisioning and all configuration parameters	Notoriously difficult to provision
Security	Bank-Grade <i>-AES encryption, secure boot, unique certificates, random default passwords</i>	Limited security <i>-DECT voice packet encryption much weaker than AES</i>