

## Grandstream WP816 Cordless Wi-Fi IP Phone (WP816)



Product Name: Grandstream WP816 Cordless Wi-Fi IP Phone (WP816)

Manufacturer: Grandstream

Model Number: WP816

### Grandstream WP816 Cordless Wi-Fi IP Phone (WP816)

The Grandstream WP816 is a cordless Wi-Fi IP phone suitable for many enterprise and vertical market applications, including offices, retail, logistics, healthcare, security, and more. Equipped with integrated dual-band Wi-Fi 6 (2.4GHz and 5GHz), an advanced antenna design, and 802.11k/r/v roaming support, the WP816 delivers reliable wireless connectivity throughout large environments. It supports 2 SIP accounts, 5-way voice conferencing, and the Opus HD voice codec. The WP816 features a dual-microphone design with AEC, Noise Shield Technology, and AI Noise Cancellation for clear communication in challenging acoustic environments. Integrated Bluetooth 5.0 enables wireless headset connectivity, while a configurable push-to-talk button supports alarm and paging functions. The phone provides 6 hours of talk time and 120 hours of standby time through a 1500mAh lithium-ion battery, with fast charging via a USB Type-C port. An accelerometer, emergency button, and proximity sensor add further utility for demanding environments. The WP816 also features an antibacterial casing certified to ISO 22196:2011, making it well suited for healthcare and hygiene-sensitive deployments.

### Grandstream WP816 Technical Specifications:

#### Display and Keys

• Display: 1.77-inch (128x160) colour LCD, 1 x dual-colour MWI

• Keys: 2 soft keys, navigation keys, confirm key, dial key, hang up key, speaker key, programmable key, quick access and mute key, backlit DTMF keyboard, volume keys, Push-to-Talk key

• Sensors: accelerometer, proximity sensor, vibration

• Push-to-Talk: customisable function button for alarm and paging

• Auxiliary ports: 3.5mm headphone jack (CTIA), USB Type-C charging port (fast charging)

#### Voice and Telephony

• HD Audio: broadband audio, HAC compliant, dual microphone

• Voice codecs: G.729A/B, G.711 & micro/a-law, G.726, G.722 (wideband), G.723.1, iLBC, Opus; in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO); VAD, AEC, CNG, PLC, AGC, AJB

• Video codecs: H.264

• Telephony features: Hold, transfer, forward, 5-way audio conference, call park, downloadable phonebook (XML, up to 1000 items), call waiting, call log (up to 500 records), auto answer, click-to-dial, flexible dial plan, personalised music ringtones, server redundancy and fail-over, push-to-talk

#### Wi-Fi and Bluetooth

• Wi-Fi: dual-band Wi-Fi 6 802.11a/b/g/n/ac/ax (2.4GHz and 5GHz); 802.11k/r/v roaming supported

• Wi-Fi encryption: WEP, WPA, WPA2, WPA3 (Enterprise and Personal), OWE

• Bluetooth: integrated Bluetooth 5.0

#### Network and Protocols

• SIP RFC3261, DNS (A record, SRV, NAPTR), DHCP, SSH, NTP, STUN, TURN, ICE, LDAP, TR-069, SNMP, RTP, SDES-SRTP, DTLN-SRTP, RTCP, RTCP-XR, TFTP, SIMPLE, HTTP/HTTPS, TCP, UDP, TLS, ARP, ICMP, IPv4, IPv6, 802.1X

• VPN: OpenVPN, WireGuard

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• QoS: Layer 3 (ToS, DiffServ, MPLS, DSCP)

### Security

• SHA-256 and SHA-512/256 sess authentication, SIP authentication via SHA-256, SHA-512/256, MD5 sess; AES security profile, SRTP, TLS, 802.1x media access control, SCEP support

### Provisioning and Management

• Firmware upgrade via FTP/FTPS/TFTP/HTTP/HTTPS  
• Mass provisioning via GDMS/TR-069 or AES encrypted XML configuration file

### Physical

• Battery: 1500mAh lithium-ion; talk time 6h; standby time 120h  
• Power adapter: universal, input 100-240VAC; output +5VDC 1A (5W)  
• Antibacterial casing: ISO 22196:2011 certified  
• Handset dimensions (H x W x D): 135 x 49 x 15.5mm  
• Charger cradle dimensions: 85 x 85 x 25.8mm  
• Handset weight (excluding battery): 82g  
• Operating temperature: 0°C to 45°C  
• Storage temperature: -20°C to 60°C  
• Humidity: 10%–90% non-condensing  
• Languages: English, French, German, Spanish, Italian, Portuguese, Russian, Chinese (Simplified and Traditional), Japanese, Korean, Arabic and more  
• Compliance: FCC, CE, RCM, IC

### Package Contents

• 1 x Grandstream WP816 Cordless Wi-Fi IP Phone  
• 1 x Type-C Power Adapter  
• 1 x Charger Base  
• 1 x Belt Clip  
• 1 x Lithium-ion Battery  
• 1 x M3 Screw  
• 1 x Wall Bracket  
• 1 x Quick Installation Guide

**Please Enquire**