

WIFI SIP Cordless

D169IL

VOGTEC
www.vogtec.com

High Light

SoC platform integrated Wi-Fi, keypad, LCD, CPU to ensure handset working with 7+ days stanby, 5+ hours talking

Android OS with best compatibility, stability, and expansibility

Dual band 2.4G/5G to keep low traffic Air and ensure voice link and quality

WIFI roaming under same SSID Aps, supporting Wi-Fi standard 802. 11 a/c/b/g/n/d/h/k

SIP auto provision and Firmware Over-the-Air (FOTA) ensure on-line support: configure, setup backup & recovery, new feature upgrading, bugfix, etc

SIP Broadsoft compatibility certification

Blue tooth

SKYPE app (optional)

Vibrator and back clip (optional)

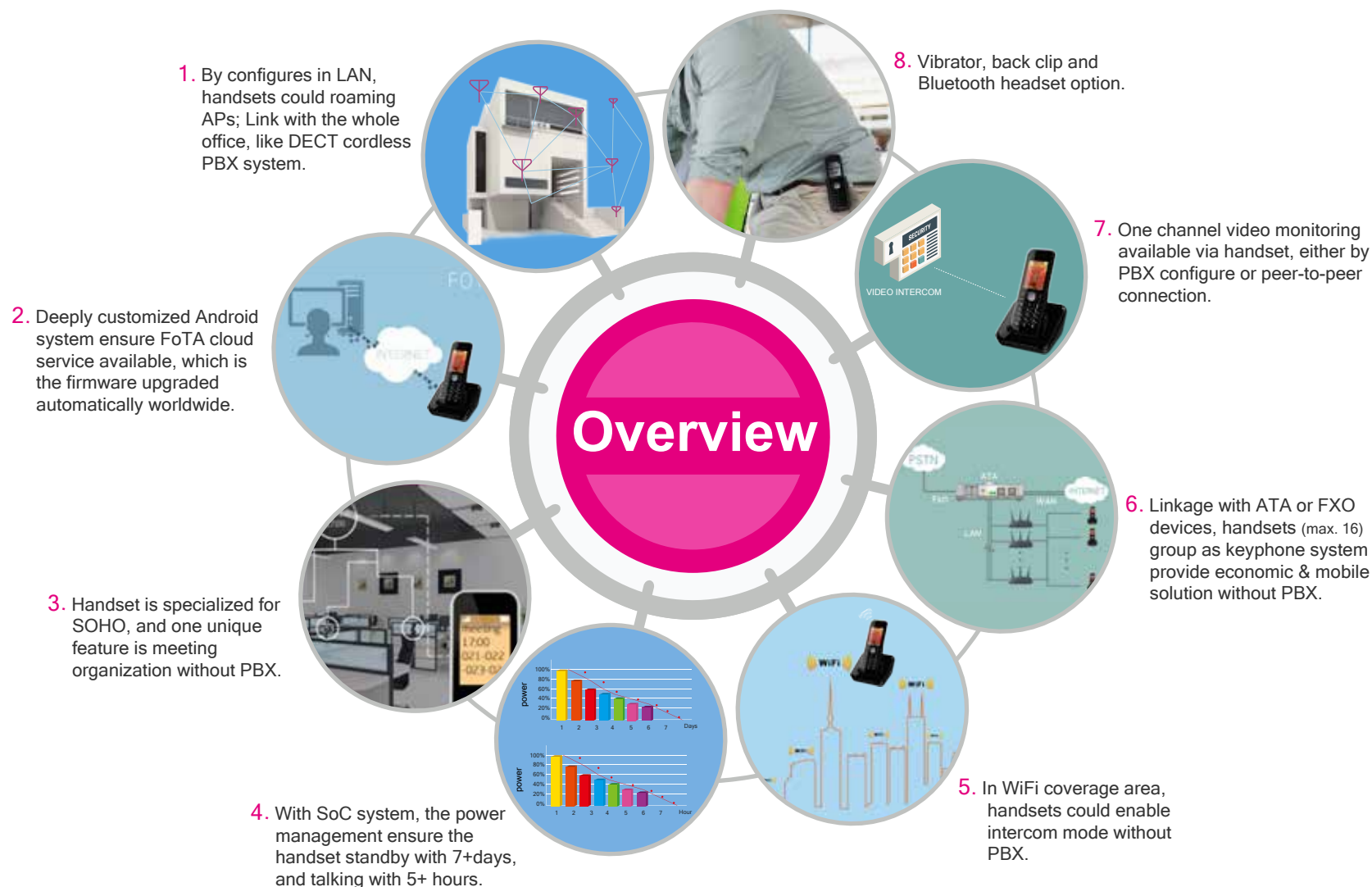
SoHo features without PBX, working with D385IW as solution SoHI Kit, offering:

- DIY configure and self-group voice keyphone system
- Calendar and meeting schedule and alerting
- Handset supporting SIP video intercom/doorbell
- Handset supporting to IP CCTV for automation (Option)
- Half-duplex intercom/radio in Wi-Fi network(Option)
- VoIP over LTE (SIM needed, option)



**:items available in advanced version only*

WIFI SIP Cordless D168IW



Network request

Network delay	<=150ms	Max link / AP	14	Total RF power	802.11b: 13dBm 802.11g: 10dBm 802.11n: 14dBm
Max call / AP	8	WiFi security	-Open -WEP -WPA/WPA2 PSK - 802.1x/EAP(PEAP/TLS/TTLS/PWD/SIM/AKA)	Total omnidirectional sensitivity	802.11b: -80dBm 802.11g: -70dBm 802.11n: -64dBm

FEATURES

Basic call features

- Speed dial
- Call forward, transfer, waiting, hold, mute, do-not-disturb, group listening, SOS, conference, redial, call back
- Peer to peer call
- Ringer set/loading/delete
- Manual/auto-clock
- Dial rule
- 1 SIP accounts

Advance call features

- Video monitoring
- Audio player
- Calendar with alert
- Voice recording
- Key-phone features (max 16 extensions)
- Wi-Fi intercom
- Medium message and clock task
- Meeting organizing and alert
- Vibration



Phonebook

- local: 500 supporting voice selection and dialing (Chines/English)
- Call broadcasting (Chinese / English)
- XML phonebook
- LDAP phonebook
- Black list
- Intelligent search
- Search/export/import via web

PBX features

- Anonymous call/rejection
- MWI
- Voice message, call park
- Call insert, intercom, group call
- Hold with music
- Voice recording based on PBX

Keys

- 4 functions: call, end, speakerphone/voice dialing, programming key
- speakerphone/voice dialing: press &hold for intercom sending; click to activate voice identifying, press to active speakerphone in conversation
- Programming key defined as one of below by user:
 - Phonebook, miss call, unit state, conference call, call transfer, SMS, network set, BT set, system set
 - Nav. Keys
 - 2 softkeys following LCD menu
 - Volume control key
 - Message LED1 (MWI, charging, low-batt., miss call)

Display

- 320x240 TFT
- Miss call / message indicator
- Multi-language android system
- Wallpaper loading via web

Specifications

WLAN

- Dual-band (2.4GHz/5GHz) single stream 802.11 a/c/b/g/n MAC/BB/RF
- 802.11 d/h/k compliant
- 802.11n optional features: STBC, A-MPDU, Blk-Ack, RIFS, MCS Feedback, 20/40MHz coexistence (PCO), unscheduled PSMP
- Supports 802.11w protected managed frames
- Supports Wi-Fi Direct (WFA P-2-P standard) and Wi-Fi Miracast (Wi-Fi Display)
- Supports Wi-Fi HotSpot 2.0
- Integrated 2.4GHz PA with max. 19dBm CCK output power and 5GHz PA with max. 17dBm OFDM 54Mbps output power
- Typical Rx sensitivity with companion chip modem: -75dBm at 11g 54Mbps mode and -75.5dBm at 11a 54Mbps mode
- Per packet TX power control

Authentication

- PEAP-MSCHAPv2
- EAP-TLS
- EAP-FAST
- Radius servers: Microsoft IAS, Steel-Belted, Free Radius

Network

- SIP v1 (RFC2543), v2 (RFC3261)
- STUN, TURN, ICE
- IP address: static and DHCP
- HTTP/HTTPS
- SNTP
- UDP/TCP/DNS-SRV(RFC 3263)
- QoS: IEEE802.11e(WMM), Layer 3 ToS, DSCP
- SRTP
- TLS
- HTTPS certificate
- Configure file encryption
- Encryption: MD5/MD5-SESS
- Open VPN, IEEE802.1X
- IPv4, IPv6 and dual mode

Wireless security

- 802.11i
- WEP 64 and 128 bits
- Cisco FSR
- WFA WPA/WPA2 personal
- WPS2.0, WAPI (hardware)

Roaming enhancement

- 802.11r, PMK caching
- OKC (opportunistic key caching)
- CCKM (Cisco)

Certificates

- Factory
- Up to 4 root and clients

Configure

- Web, phone and auto-provision
- FTP/TFTP/HTTP/HTTPS/PnP
- DHCP Opt66, SIP INFO
- Zero deployment, TR-069
- Redundant Server
- Factory reset and auto booting
- Sys. log
- FoTA



Quality of service (QoS)

- Standardized: 802.11e,
- WMM (EDCA)
- WMM Power Save (U-APSD)
- Call admission control: TSPEC, WMM AC
- WFA WMM, WMM PS
- Cisco CCXv2

Audio

- HD voice, 3.5mm headset & BT headset
- Codec: Opus, G.722, G.711(A/μ), G.729AB, iLBC, Speex-WB, GSM
- DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO
- VAD, CNG, AEC, PLC, AJB, AGC

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Topical application

Operator market

Comparing to other voice/data/TV, all-in-one CPE package, advantages are:

- Cable modem will be simple and cheaper as no VoIP module or PSTN SLIC module needed
- Handset is cheaper than desktop SIP phone /cordless SIP DECT phone
- Handset supplying cordless phone flexibility
- 1-5 VoIP accounts registering to different handsets to increase user qty
- Roaming between APs, which are with same SSID.
- As it is android system, push message and new APP available.



SoHo+ market

SoHi+ kit (1x D385IW + 5x D169IL) complete DIY solution for SoHo users, as:

- User DIY configure and kit self-group network to set up keyphone system without PBX
- Configure backup in cloud and recovery
- Auto-diagnosis and bug fix via on-line support
- Handset supporting SIP video intercom/doorbell
- Handset supporting to SIP CCTV for automation
- Calendar & meeting schedule and alert
- Half-duplex intercom/radio in WIFI network
- Skype/Whatsapp APP
- Back slip and vibrator

UC Market

D169IL is advantage with:

- Android system
- Wi-Fi roaming under same SSID APs
- Configure auto provision & Firmware upgrade through FOTA
- 10+ hours talking time and 10+days standby
- SKYPE or Whatsapp

