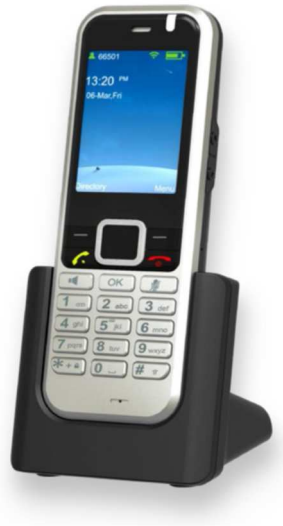
VOGTEC

model M2

Anywhere Anytime

VoIP over LTE and WIFI

for Indoor and Outdoor working



Communication technology makes various industries improved their productivity. However, let's have a look at the office telephony system, All of the office phones are only work in the desk area, connected by cables. A few DECT or WiFi phones only work in the limited range, they are not available while staffs on the move, out of the office, on the road. They can't be reachable by customers, workmate, lead to miss or delay business.

Vogtec noticed the situation, spent a lot of efforts, developed world *first mobile-network (LTE) based VoIP office extension phone* –**Mobex** Phone, creatively combine mobile network technology and VoIP technology, completely make the office phone mobility. The revolutionary products should be reform business communication for all of the industries, not only telecommunication but also hospitality, retail, logistics & transport, manufacturing, health care, etc.

For the wireless carrier, it's a golden opportunity to win back and run your own OTT business. The VOGTEC terminal devices are ready to integrate with your cloud PBX system to support you providing professional service to your business customers.

3CX broadsoft

VOGTEC

Benefit

-roaming around in registered LTE network, indoor or outdoor coverage

-working with both LTE and WiFi network

-default connection to WiFi, but user define LTE or WiFi priority

-no more radio in mobile working

-mobile extension, that is **Mobex**

Suitable for

-Nurses, doctors, technicians or other shift workers inhealthcare Customer servi ce and warehouse representatives in retail settings

-Operations and engineering personnel in manufacturing

-Service staff such as maids in hospitality, crew on cruise ships

-Workers on oil rigs and chemical plants

-Video door bell in room.

Features at a Glance

Qual-core SoC platform integrated Wi-Fi 2.4/5G, keypad, LCD, CODEC, SIP stack etc to ensure handset working with 7+ days standby, 5+ hours talking

Android OS with best compatibility, stability, and expandability.

Wi-Fi standard 802.11 a/c/b/g/n, supporting fast roaming under same SSIDAPs

Deploy easily with the Vogtec on-line DIY cloud DMS system or auto provision auto provision Over-the-Air (FoTA) ensure on-line upgrading of firmware and configure

Vibrator

3.5 mm earphone port

Supporting SIP video intercom/doorbell

CE FC RoHS 3CX broadsoft

VOGTEC

Specification

WLAN data Connectivity Mode

No SIM available

WiFi set as client

Phone connected to internet via WiFi

Wireless Characteristic

2.4-GHz receiver sensitivity

IEEE 802.11b: -85 to -95dBm

IEEE 802.11g: -82 to -77 dBm

IEEE 802.11n : -79 to -75dBm

5-GHz receiver sensitivity

IEEE 802.11a:-85 to -78dBm

IEEE 802.11n: -85 to -78dBm

Transmitter output power 2.4GHz

802.11b: up to 17dBm

802.11g: up to16.5dBm

802.11n: up to 16.5dBm

Transmitter output power 5GHz

802.11a: up to 14dBm

802.11n : up to 14dBm

Wireless Security Authentication

802.11i

WEP 64 and 128 bits WPA/PSK

WPA2-Enterprise with 802.1X

(EAP-TLS, EAP-FAST,PEAP-MSCHAPv2)

WFA , WPS2.0,WAPI(HW)

Fast, Secure roaming and others

802.11d/h/k

802.11r, PMK caching

802.11n : STBC, A-MPDU, Blk-Ack, RIFS

802.11w

Wi-Fi Direct (WFA P22-P)

QoS

IEEE 802.1p/Q tagging (VLAN)/DSCP tagging

IEEE802.11e(WMM), Layer 3 ToS, DSCP, SRTP,TLS;

Mobile Network Connectivity Mode

LTE data Connectivity mode

LTE SIM inserted and lined to internet

WiFi set as hotspot, sharing internet

LTE band

Band 1/3/7/20/38

Frequency Range

GSM/GPRS 900: Tx: 880-915MHz, Rx: 925-960MHz

GSM/GPRS 1800: Tx: 1710-1785MHz, Rx: 1805-1880MHz

WCDMA Band I: Tx: 1920-1980MHz, Rx: 2110-2170MHz

WCDMA Band VIII: Tx: 880-915MHz, Rx: 925-960MHz

LTE Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz

LTE Band 3: Tx: 1710-1785MHz, Rx: 1805-1880MHz

LTE Band 7: Tx: 2500-2570MHz, Rx: 2620-2690MHz

LTE Band 20: Tx: 832-862MHz, Rx: 791-821MHz

LTE Band 38: Tx: 2570-2620MHz, Rx: 2570-2620MHz

WiFi: 802.11b/g/n HT20: 2412-2472MHz

802.11n HT40: 2422-2462MHz

WiFi (5.8GHz): 5745-5825MHz

Bluetooth: 2402-2480MHz

Transmission Power (Standard Compliance)

GSM900 GSM1800

WCDMA Band I WCDMA Band VIII

LTE Band 1

LTE Band 7

LTE Band 20

LTE Band 38

Bluetooth (EIRP)

CE FC RoHS 3CX broadsoft

VOGTEC

CODECS

HD voice

Opus,G.722

G.711(A/μ)

G.729AB

iLBC

Speex-WB GSM

DTMF: In-band, Out-of-band (RFC2833)

SIP INFO

CERTIFICATE

HTTPS certificate,

Encryption: MD5/MD5-SESS Open VPN,IEEE802.1X Image authentication

Device authentication

File authentication Signaling authentication

Media encryption using Secure Real-Time Protocol (SRTP) Signaling encryption using TLS Protocol

NETWORK

SIP v1 (RFC2543), v2(RFC3261)

STUN, TURN, ICE; IP address: Static and DHCP;

HTTP/HTTPS;

UDP/TCP/DNS-SRV(RFC 3263),SNTP;

IPv4, IPv6 and dual mode

MANAGEMENT AND PROVISIONING NETWORK

FTP/TFTP/HTTP/HTTPS/PnP DHCPOption66,

Bulk auto provisioning

SIPINFO

TR-069 Redundant Server

Factory reset and auto booting System log USB

And FoTA

Syslog LDAP

Configuration via VMS on-line DIY SaaS system

DISPLAY

2.4 inch.

240 x 320 resolution 16k color palette

Multi-language android system Wallpaper loading via web

Battery

Up to 9.5 hours of talk time;

Up to 145hours in (auto scan) standby mode

FEATURES:

2 SIP accounts

Adjustable ringing and volume levels

Adjustable display brightness and timeout Audible and vibrating ringers

Auto-answer

Auto-detection of headset and auto-answer from headset Automatic keypad lock

Callback Call forward

Call history lists Call park

Call pickup Call timer Call waiting Caller ID

Corporate directory Conference

Direct transfer

Extension mobility service Fast-dial service

Group call pickup

Immediate divert Redial

SoS call Callback Dial plan

Ringer set/loading/delete Manual/auto-clock Malicious caller Message-waiting indicator

Music on hold Mute

Support for mutual-authentication Transport Layer Security (TLS) Intercom

Voicemail

BT and 3.5mmearphone

Remote phonebook, Intelligent search/export/import via web

Blacklist

Anonymous call/Rejection

Voice message, Call park, Call insert, Intercom, Group call, Vice Recording (PBX dependent)