

# Mitel 5624 WIFI Phone

Feature rich SIP enabled VoWiFi phone with color display, telephony and messaging over 802.11 a/b/g/n WiFi networks

## Key Features

- Supports WiFi 802.11 a/b/g/n standards
- SIP RFC 3261 Compliant
- TFT 176 x 220 pixel backlit color display
- Illuminated keypad
- Three Programmable soft keys
- Nine programmable hot keys
- Man-down and No-movement alarm
- Push button alarm
- Five configurable emergency numbers
- Vibrator
- Handsfree Speaker function
- 2.5 mm Headset connector
- Push to talk



The Mitel 5624 WiFi handset is designed to be used in office and medium demanding environments such as hospitals. It is suitable for users who are dependent on voice and messaging features which make it ideal for applications where the user needs 2-way messaging or to be able to interact with other users.

The Mitel 5624 WiFi Phone is a feature-rich SIP enabled VoWiFi phone with color display, providing telephony and messaging over the WiFi 802.11 a/b/g/n standards. The 5624 is delivered with standard telephony features which can then be enhanced using Services, Personal Alarm, Location and Shared Phone licenses.

WiFi is ideally suited to businesses that have a need for both wireless voice and wireless data capabilities and prefer to deploy these services over a single, converged infrastructure.

WiFi involves deploying a VoIP compatible Wireless LAN (WLAN) infrastructure that can support both VoIP (voice) applications and data applications concurrently. This provides for broader multipurpose use but requires more

wireless Access Points, more precise site engineering, and ongoing management.

The 5624 is Mitel's first VoWiFi handset operating on 802.11n networks, it supports the deployment of voice over the network without degrading the performance of an existing 802.11n network's capacity. A Mitel 5624 WiFi Phone based solution delivers trouble-free WLAN vendor interoperability and scalability, as well as the capacity to integrate and communicate with a comprehensive range of external sources.

The Mitel 5624 can be managed and configured using the Mitel WSM Server along Mitel 5603/5604 handsets enabling a wide range of devices to be managed and configured in a mixed IP-DECT and WiFi environment.

## Features

- Full duplex Handsfree Speakerphone
- WiFi Handset with high quality voice, personal alarm (1) and messaging (2)
- Supports WiFi 802.11 a/b/g/n standards
- Dynamic output power according to 802.11h standard
- TFT color display with multiple colors with high resolution, more than 65000 individual colors, 176 x 220 pixel LCD with white LED backlighting
- 3 Programmable soft keys
- 9 Programmable hot keys
- Water, dust and chemical resistant for easy disinfection
- Upgradeable by licenses, Services, Personal Alarm, WiFi Location and Shared Phone
- Push button alarm, with ability to send different alarm types (1)
- Acoustic Location Signal(ALS) at alarm (1)
- Automatic call after alarm (1)
- Location WiFi (AP, Ekahau RTLS and Cisco MSE ) (3)
- Messaging
- Interactive Messaging
- Colored Messaging
- Message acknowledgement
- Voice mail (4)
- Push to talk (PTT)
- Shared phone (3), supports virtual SIM
- Centralized management
- Hearing Aid compatible (HAC)

### ALARM

Location types: Associated WLAN access point and Cisco MSE as standard, Ekahau as option

Alarm types: Single Button with 2 alarm types; long-press and double-press.

### AUDIO

Ring signal: Adjustable in 8 steps and silent

Earpiece: Adjustable in 8 steps of 3dB each

Max sound ring signal level: 88 dBA @ 10 cm

Loudspeaker: Full duplex handsfree function

### CENTRAL PHONEBOOK

Max name and number length: 40 characters in a name and 20 digits in a number – system dependent

### COMPANY PHONEBOOK

Max name and number length: 24 characters in a name and 24 digits in a number (1 number per name). Entries: 1000

### LOCAL PHONEBOOK

Storage of contacts: - 48 character name. Entries 250

- 24 digit work number

- 24 digit mobile phone number

- 24 digit other number

- Selectable ring tones per contact

### MESSAGING

Max message length: 160 characters from 5624 Handset.

Message length to 5624 Handset is system dependent.

Storage capacity: 30 received/sent messages.

### SETTINGS

Languages: 18 (Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Russian, Slovak, Spanish, Swedish, and Turkish), + 1 customizable.

### TELEPHONY

Indication: 14 ring signals, flashing LED and vibrator

Answer call: Button press or auto answer

Call list storage capacity: 25 calls (received, dialed and missed) with time stamp and name

### USER INTERFACE

Indicator: LED on top/front for visual indication of events and normal function. The LED may also be used for visual indication of a message

Vibrator: Incoming calls, other audio events and messages

Time and date indication

Manual and automatic keypad lock

Customizable UI

Profiles, system and personal

Buttons/Keypad: - Soft keys 3

- Call key
- End key and Power On/Off on the same key
- Five way navigation key (OK button in the center of the key)
- Numerical keys
- Sound off key
- Volume button up/down
- Multifunction button (5)
- Mute button

## ADDITIONAL FEATURES

- Clear lists in charger
- Site survey tool

## Technical Specification

### BATTERY

Type: Li-polymer

Speech time: (6) 15 hours

Stand-by time: (7) 100 hours

Charging time: 2.5 hours

Discharge/charge cycles: >=80% capacity left after 400 full charge/discharge cycles

Easy replaceable battery

### CONNECTORS

Multi-purpose connector: For battery charging, software download, and configuration

Headset connector: Standard 2.5 mm

### ENVIRONMENTAL

Operating temperature: -5°C to +45°C

Storage temperature: (8) -25°C to +55°C

Charging temperature: ≥ +5°C

Enclosure protection: IP44, IEC EN60529

Immunity to 10V/m EN61000-4-3 electromagnetic fields:

Immunity to ESD: 6 kV contact discharge and 8 kV air discharge (EN61000-4-2)

Free fall test, standard product: IEC 60068-2-32, procedure1, dropped 12 times from 1 meter

### PHYSICAL

Dimensions (l × w × d): 134 × 53 × 26 mm

Weight: 135 g (battery and clip included)

Material: Case: PC/ABS, Key pad: PC,

Clip: PA12 Grilamid

Keypad: Illuminated by white LED's

Color: Black

Display (w × h): 28 x 35 mm

Clip: Hinge-type (standard) or swivel-type

### RADIO

Receiver sensitivity -87 dBm (802.11a, 6Mbps), (typical values): -93 dBm (802.11b, 1Mbps), -87 dBm (802.11g, 6Mbps), -86 dBm (802.11n, MCS0)

Frequency range: EU:

b/g: 2.4–2.4835 GHz (Ch 1–13) and a: 5.18–5.24GHz (UNII-1 channels, 36, 40, 44, 48), 5.47–5.725 GHz (Ch 100–140)

USA/Canada:

b/g: 2.4–2.4835 GHz (Ch 1–11) and a: 5.15–5.35 GHz (Ch 36–64), 5.47–5.85 GHz (Ch 100–165)

Maximum output power: 100 mW / 20 dBm

Modulation speed: b: 1, 2, 5.5, 11Mbps,

a, g: 6, 9, 12, 18, 24, 36, 48, 54Mbps, n: MCS0-7

### ROAMING ENHANCEMENT

Pre-authentication

Opportunistic Key Caching

PMKSA caching

### SECURITY

Security standard: 802.11i

Encryption methods: 64/128 bits WEP, TKIP, AES-CCMP

Authentication methods: 802.1X

Original 802.11 open/shared key authentication

WPA-PSK WPA2-PSK PEAP MSCHAPv2 EAP-

TLSEAP-FAST

Authentication certificate

### TELEPHONY

Protocol: SIP supporting RFC1889, RFC2327, RFC2833, RFC3261, RFC3264, RFC3265, RFC3515 and RFC3842

### WLAN

Number of networks: 4 systems, manual selection

Quality of Service (QoS): WMM, TSPEC-based CAC

Supported networks: 802.11a/b/g/n (MCS0-7, 20 MHz, 800ns GI)

## MITEL PART NUMBER DESCRIPTION

51302081: Mitel 5624 v2 WiFi Phone 2/battery & clip

## LICENSES

51301216: Mitel 5624 Services License  
51301217: Mitel 5624 Personal Alarm License  
51301218: Mitel 5624 Services to Alarm Upgrade License  
51301219: Mitel 5624 WiFi Location License  
51301220: Mitel 5624 Shared Phone License  
51302044: Personal Alarm to Man Down/No Movement Alarm Upgrade

## ACCESSORIES

51301221: Mitel 5624 Programmer  
51015422: Mitel 5603/04/24 Charger - EU  
51015423: Mitel 5603/04/24 Charger - Global (excl EU)  
51301129: Mitel 5603/04/07/24 Rack Charger – Global  
51015430: Mitel 5604 Battery Pack Charger – Global  
51015440: Mitel 5604 Leather Case  
51015435: Mitel 5603/04 Security Chain

1 Applicable to Mitel 5624 Personal Alarm only.

2 Applicable to Mitel 5624 Services and Mitel 5624 Personal Alarm only.

3 This function requires a license.

4 This function is system dependent (refers to the voice mail indication feature)

5 This is not available for Alarm licensed phones.

6 Dependent of Active mode, U-APSD WLAN environment and configuration (refers to the speech time). Location in the system will also affect the speech time.

7 The stand-by time is without activated screensaver.

8 Note that storing Li-Polymer batteries at high temperature dramatically reduces its capacity. For example storage around maximum temperature reduces capacity with 20% in less than a month, permanently.