

# HomeTab 10: An advanced mobile (GSM/LTE) – based touch screen carephone



## Description:

HomeTab 10 is an advanced mobile carephone with a built in GSM/LTE module and has possibility to transfer alarms and events over mobile telephone network. It has an user

interface, specially adapted to the usage of the elderly and those with less technological skills. It comes with big bright touch-buttons in different colors and is easy to understand. The main functionality is a button for emergency calls, that can call a dedicated telephone number of formal or informal caregivers.

## Features:

- Colourful advanced IP touchscreen, easy to understand and use.
- Emergency call that can be routed to formal or informal caregivers.
- Possibility of two way voice communication.
- Supports VoLTE (voice over LTE), offering better quality of voice communication and calling experience.
- Automatic wireless transmission of vital signs measurements to the HomeTab device enables continuous monitoring and gives alert to the caregivers when a value requires immediate attention.
- Service calls (requests for cleaning, food ordering).
- Reminders and appointments (birthdays, doctor appointments, medications).
- Video calls
- Playing cognitive games.
- Fall detection, wearing detection, activity tracking, positioning.
- Electronic documentation of all services done at the home of the elderly (from health-care services to cleaning, housekeeping etc.).
- Caregivers receive instant alerts when some event needs an action.
- Backup battery for instances of main power supply failure

## Functionalities:

- Detailed list of pending or requested tasks.
- Comprehensive documentation of all healthcare and other services done.
- Detailed history of accomplished tasks.

## Integration:

- Wireless transmitter (trigger) to establish emergency call and location information (if available).

- Healthcare measurement devices (glucometer, blood pressure monitor, pulse oximeter, heart rate monitor).
- Smart home sensors (Toilet pull cord, air quality sensor- BTVOC)
- Possible integration with other wireless devices, apps and platforms.

## Specifications:

Hardware	<b>CPU:</b> QCM2150, Quad-core ARM Cortex-A53 64-bit CPU @ 1.3 GHz <b>Memory:</b> 2 GB LPDDR3 + 16 GB eMMC
OS	Android 10.0
Operating Temperature	0 to +40 °C
Frequency Bands	<b>LTE-FDD;</b> B1/B2/B3/B4/B5/B7/B8/B20/B28 <b>LTE-TDD;</b> B38/B40/B41 <b>WCDMA;</b> B1/B2/B4/B5/B8 <b>GSM;</b> 850/900/1800/1900 MHz <b>WLAN;</b> 2.4/5 GHz 802.11a/b/g/n <b>Bluetooth;</b> BT 2.1+EDR/3.0/4.1 LE/4.2 BLE <b>GNSS;</b> GPS/BeiDou/GLONASS or GPS/BeiDou/Galileo
Data Transmission	<b>LTE-FDD Data Rate (Mbps):</b> 150 (DL)/50 (UL) <b>LTE-TDD Data Rate (Mbps):</b> 130 (DL)/30 (UL) <b>DC-HSPA Data Rate (Mbps):</b> 42 (DL)/11.2 (UL) <b>WCDMA Data Rate (kbps):</b> 384 (DL)/384 (UL) <b>EDGE Data Rate (kbps):</b> 296 (DL)/236.8 (UL) <b>GPRS Data Rate (kbps):</b> 107 (DL)/85.6 (UL)
Enhanced Features	<b>3GPP E-UTRA:</b> Release 10 <b>Bandwidth:</b> 1.4/3/5/10/15/20 MHz <b>Rx-diversity</b> <b>DL MIMO 2 × 2</b> <b>Firmware Upgrade via USB</b> <b>OTA</b> <b>ALS / PS</b>
LCD touch pannel	10", × 1, 4-lane MIPI_DSI, HD+ (1440 × 720) @ 60 fps
Camera	1 camera, 13 MP with dual ISP
Touch Panel	Capacitive touch panel

Audio	Noise-canceling Microphone 2x2W speakers
Video	Video encoding + decoding: 720p @ 30 fps + 1080p @ 30 fps Encoding up to 1080p @ 30 fps, decoding up to 1080p @ 30 fps
USB	1x USB 2.0, support USB OTG
Antenna	× 4, Main/Rx-diversity/GNSS/Wi-Fi & BT Antenna respectively
LCD	10"
Battery	LiPo 4000mA
Power	Power adapter 5V/3A