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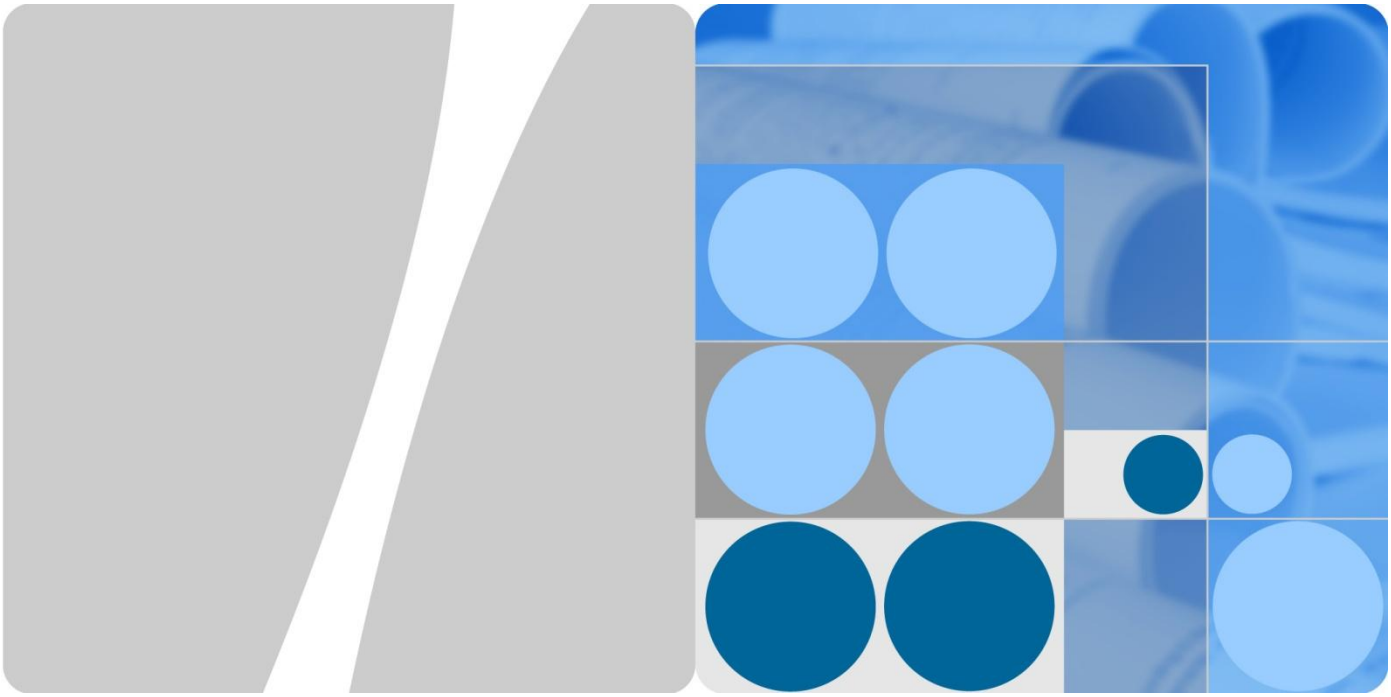

EM720

Product Description

Issue 02

Date 2014-09-10

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Contents

1 Product Positioning and Features

1.1 Product Positioning

Professional terminal devices play an important role in ensuring communication in key tasks or projects. In the Big Data Era, various personal terminals bring increasing demands on network access. The EM720 terminal device provided by Huawei facilitates the dealing with difficult working environments.

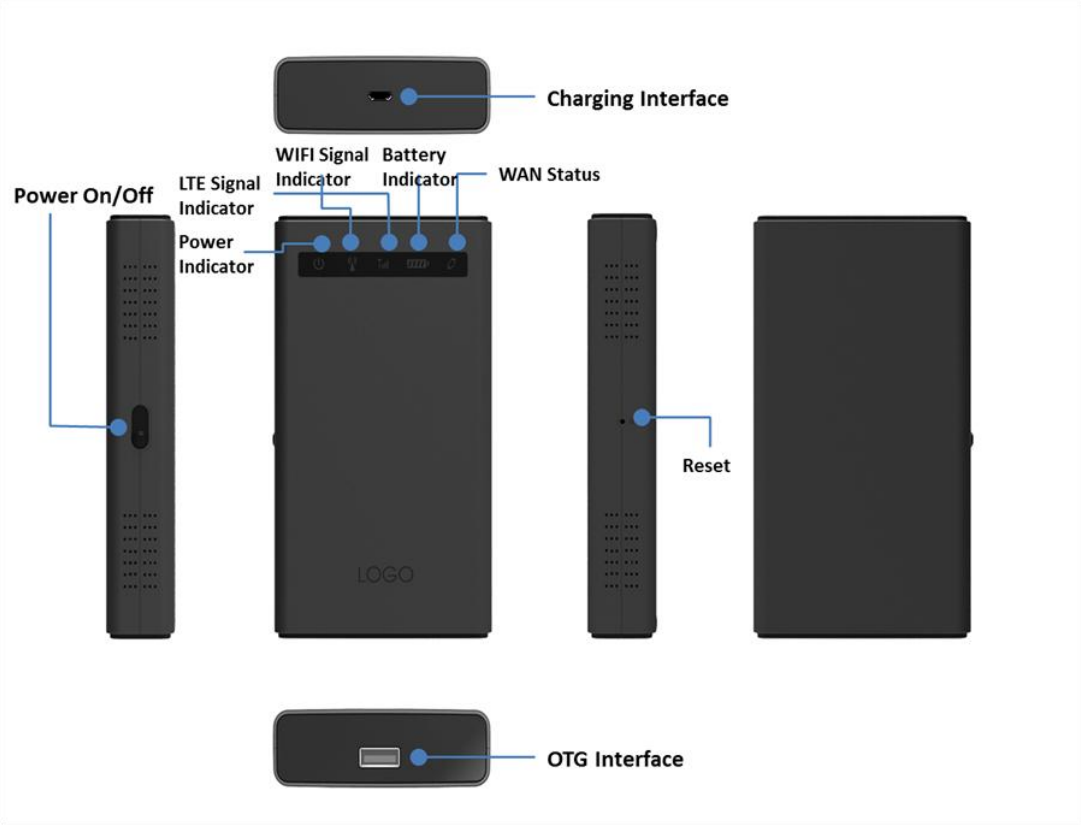
1.2 Product Features

- Broadband multimedia access terminal developed based on the TD-LTE technology, meeting the industry's requirements on data services
- Supports Wi-Fi access: A personal electronic device with the Wi-Fi function can access LTE networks using EM720.
- Supports the UL 64QAM modulation scheme, which significantly improves the throughput of UL users.
- Can be controlled and managed by using the PC configuration tool.
- Provides a large battery capacity and can charge other electronic devices.

1.3 Product Appearance

Figure 1-1 Front view of EM720

Figure 1-2 EM720 product overview



2 Application Scenarios

2.1 Overview

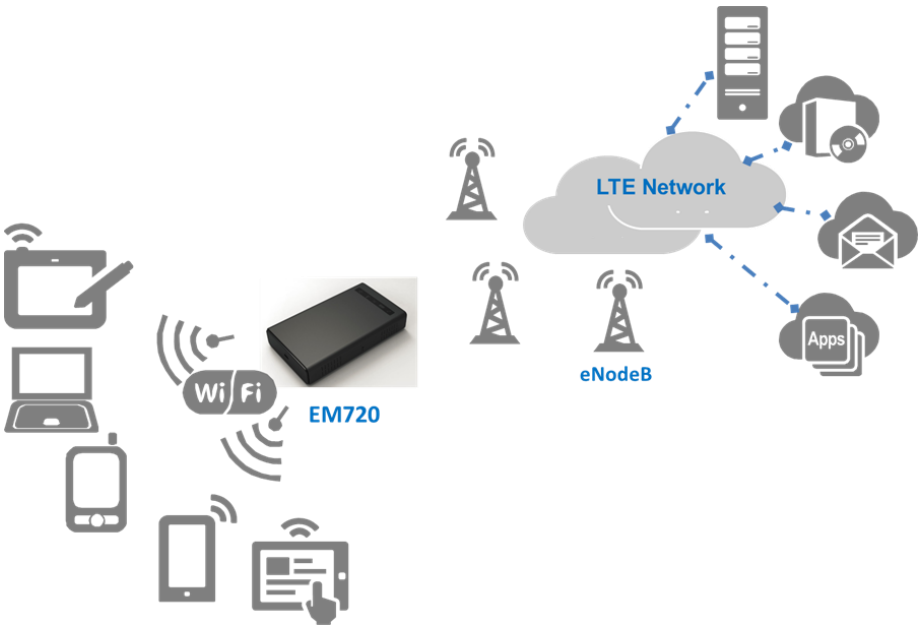
EM720 is a multimedia broadband data access terminal based on the TD-LTE technology. It allows a user to perform professional multimedia data accessing.

2.2 Application Scenarios

2.2.1 Broadband Data Access

A common electronic device can access an LTE private network through the Wi-Fi hotspot of EM720, to use broadband applications.

Figure 1-3 EM720 application



2.2.2 OTG

Currently, most personal electronic devices have large screens, which consume much power. As a result, the standby time and operating time of the devices are limited. EM720 has a 6000 mAH capacity, and can charge electronic devices through a USB port, ensuring the operating time of user devices.

Figure 1-4 EM720 OTG application

3 Technical Specifications

3.1 Hardware Technical Specifications

Table 1-1 Hardware technical specifications

Item	Specifications
Frequency	1.8 GHz: 1785 to 1805 MHz 1.4 GHz: 1447 to 1467 MHz
Power	1.8 GHz: 24±2 dBm 1.4 GHz: 24±2 dBm
Operating bandwidth	1.8 GHz: 5 MHz/10 MHz/20 MHz 1.4 GHz: 5 MHz/10 MHz/20 MHz
Sensitivity	5 MHz: –100 dBm 10 MHz: –97 dBm 20 MHz: –94 dBm
Wi-Fi antenna gain	2dbi MAX
Wi-Fi antenna sensitivity	54M: –68 dBm@10% PER 11M: –85 dBm@8% PER 6M: –88 dBm@10% PER 1M: –90 dBm@8% PER
Maximum Wi-Fi transmit power	802.11b: 13 dBm 802.11g: 11 dBm 802.11n: 10 dBm@2.4 GHz
UE capability	Cat 4
Maximum rate	UL 50 Mbit/s; DL 100 Mbit/s
Modulation scheme	UL: QPSK, 16QAM, and 64QAM DL: QPSK, 16QAM, and 64QAM

Item	Specifications
Dimensions (H x W x D)	121 mm x 70 mm x 23.5 mm (excluding the external antenna)
Battery	LI-ion, 3.7 V, 6000 mAH
Weight	253 g
Input voltage	5 V, 1.5 A
Output voltage	5.2 V DC ±10%
Output current	1 A
Operating temperature	–10 ℃ to 45 ℃
Operating humidity	10% to 85% RH
Storage temperature	–20 ℃ to 60 ℃
Side keys	Reset key and power key
Standby time	14 hours (LTE standby, with Wi-Fi enabled)
Operating time	10 hours (at –95 dB, with a single user uploading data)
Antenna	Built-in: LTE
	Built-in: Wi-Fi
External port	Micro USB 2.0
Wi-Fi wireless standard	IEEE 802.11b: 11/5.5/3/2/1 Mbit/s (Auto Rate Sensing) IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbit/s (Auto Rate Sensing) IEEE 802.11n: 300/150 Mbit/s (Auto Rate Sensing)
Wi-Fi radio frequency	2412 MHz to 2472 MHz
Maximum Wi-Fi transmission rate	300 Mbit/s

Item	Specifications
Wi-Fi channel	1-14
Certification	Model Approval Certificates by China Radio Management CE certificate RoHS

3.2 Software Technical Specifications

Table 1-2 Software technical specifications

Category	Item	Specifications
Software upgrade and configuration	Local software upgrade and configuration, and independent configuration file upgrade	Supported
SIM card	Physical/Virtual SIM card	Supported

4 Product List

Table 1-3 EM720 product list

Item	Quantity	Remarks
EM720	1	
Data cable	1	USB port on one end and mini USB port on the other end
Adapter	1	Charger: Input: 100 to 240 V AC, 50 to 60 Hz Output: 5 V DC, 2 A
Quick guide	1	Chinese and English versions
Certificate of conformance	1	
Product list	1	

5 Acronyms and Abbreviations

Table 1-4 Acronyms and abbreviations

Item	Full Name
LTE	Long Term Evolution
EMC	Electromagnetic Compatibility
USB	Universal Serial Bus
LED	Light-Emitting Diode
RF	Radio Frequency
ROHS	The Restriction of the User of certain Hazardous Substances In electrical and Electronic Equipment
SAR	Specific Absorption Rate
TFT	Thin Film Transistor
WEEE	Waste Electrical and Electronic Equipment