



EP821 Intelligent Large-Screen Handheld Trunking Terminal



The EP821 is equipped with an Android 8.0 Operating System (OS), a Kirin octa-core CPU, an 8-megapixel front camera, and a 13-megapixel HD rear camera. It supports a wide range of bands on both enterprise and public networks. With the IP68 protection, the EP821 can be used in public safety, transportation, and energy industries, enabling professional trunking dispatching, multimedia dispatching, and broadband data services.

Product Details

Exquisite Design and Top-Notch Configurations

- » Lightweight, thin, and compact design with stylish appearance
- » Kirin octa-core CPU with a Huawei-developed LTE trunking module for security and efficiency
- » 5.0-inch HD touchscreen featured with anti-scratch, shockproof, anti-smudge, and anti-stain characters and supports all-day touch operations with gloves or even wet fingers
- » HD photographs taken from an 8-megapixel front camera and a 13-megapixel rear camera
- » Physical push to talk (PTT) key, emergency call key, and multi-purpose key, implementing convenient broadband trunking services

Service Integration and Network Coordination

- » Support for two SIM cards, enterprise networks working on 1.4 GHz and 1.8 GHz bands, and public GSM/UMTS/LTE networks allows for public/enterprise network convergence and multi-network coordination
- » Evolution meeting the B-TrunC and 3GPP eMBMS + MCPTT standards
- » Communications compatible with analog and digital Direct Mode Operation (DMO), anywhere and anytime
- » Stable, high-speed performance through 2.4 GHz Wi-Fi, 5 GHz Wi-Fi, 4.1 EDR Bluetooth, and NFC
- » Support for combined BeiDou, GPS, and GLONASS positioning

Excellent, Secure, and Reliable Performance

- » Support for voice services and broadband data services, integrated P2P calls, group calls, Short Message Service (SMS), Multimedia Messaging Service (MMS), video uploads (1080p and 25 FPS), and a mobile office with an industry-leading multimedia dispatching algorithm
- » 2.5 W speaker with dual microphones for noise reduction and an echo elimination algorithm for clear voice output, even in noisy environments
- » Support for group call setup delay of less than 300 milliseconds, call preemption delay of less than 150 milliseconds, bi-directional authentication, air interface encryption, remote enabling and disabling, and end-to-end (E2E) service encryption
- » Replaceable 4000 mAh battery with a standby duration longer than 60 hours
- » Complies with MIL-STD-810G with IP68 protection and 1.2-meter drop resistance design

Open Platform and Abundant Applications

- » Android 8.0 OS supporting abundant applications for public safety, transportation, and energy industries
- » Compatible with a wide range of professional accessories and industry applications
- » Open platform with hardware and software interfaces for further development

Specifications

Item	Specifications
RF Specifications	
Enterprise network operating bands	EP821: <ul style="list-style-type: none"> • 1.4 GHz: 1447 MHz to 1467 MHz • 1.8 GHz: 1785 MHz to 1805 MHz • Others: Band 20/26/28 EP821-D45: <ul style="list-style-type: none"> • 400 MHz: 380 MHz to 450 MHz • Others: Band 20/28/31 NOTE Band 68 supports only 698 MHz to 703MHz in the uplink and 753 MHz to 758 MHz in the downlink.
Public network operating bands	EP821: <ul style="list-style-type: none"> • GSM: 900 MHz/1800 MHz/1900 MHz • UMTS: Band 1/2/8 • LTE: Band 1/2/3/4/5/7/8/20/26/28/38/39/40/41/68 NOTE Band 68 supports only 698 MHz to 703MHz in the uplink and 753 MHz to 758 MHz in the downlink. EP821-D45: <ul style="list-style-type: none"> • GSM: 900 MHz/1800 MHz/1900 MHz • UMTS: Band 1/2 • LTE: Band 1/2/3/4/7/20/28/31/38
Operating bandwidth	1.4 GHz: 5 MHz/10 MHz/20 MHz 1.8 GHz: 1.4 MHz/3 MHz/5 MHz/10 MHz/15 MHz/20 MHz Others: Complies with 3GPP TS 36.101
Hardware Specifications	
Processor	Kirin octa-core CPU
Display	5-inch touchscreen with a resolution of 1920 x 1080
Built-in memory	3 GB RAM + 32 GB flash
External memory	MicroSD (128 GB)
Rear camera	13-megapixel
Front camera	8-megapixel
Battery capacity	Replaceable 4000 mAh battery with a standby duration longer than 60 hours
Speaker power	2.5 W at most
Positioning	BeiDou, GPS, and GLONASS
Wi-Fi	2.4 GHz, 5 GHz, and IEEE 802.11 b/g/n
Bluetooth	4.1 EDR
NFC	Supported
External port	3.5 mm HDMI headset
SIM card type	Physical SIM card (dual slots, Micro-SIM)
Physical Specifications	
Dimensions (H x W x D)	158 mm x 76 mm x 20 mm
Weight	Less than 340 g (with antenna and battery)
Protection	IP68, 1.2-meter drop resistance design, complies with MIL-STD-810G
Operating temperature	-20°C to +55°C
Storage temperature	Host: -40°C to +85°C
Relative humidity	5% to 95% (non-condensing)
Peripherals and Accessories	
(Optional) voice accessories	Bluetooth headset, Bluetooth remote speaker microphone, throat vibration headset, air conduit headset, lightweight headset, and noise-canceling headset
(Optional) video accessories	Video recorder and headband camera
(Optional) others	Bluetooth PTT key
Operations and Maintenance	
Support for automatic remote software updates and parameter reconfiguration through Over-The-Air (OTA) and support for a wide range of industry applications	



EP720 eLTE Handheld Trunking Terminal



Featured with light weight and compact size, the EP720 is designed with a 5.2-inch dust-proof and waterproof HD touchscreen and the fingerprint recognition function. It supports multiple frequency bands and provides a range of such industry-specific applications as P2P calls, group calls, short/multimedia messages, broadband data access, video dispatching, and GIS services. The EP720 applies to a wide range of such industries as public safety and transportation, delivering a new experience to users in every industry.

Product Details

Compact and Lightweight Design for a Brand New Experience

- » Compact size and light weight of 230 g
- » 5.0-inch HD touchscreen featured with anti-scratch, shockproof, anti-smudge, and anti-stain and supports all-day touch operations with gloves or even wet fingers

High Performance for Industry Professionals

- » Equipped with powerful octa-core CPU, ensuring faster and smoother multi-task processing
- » Equipped with 2.5 W speaker with dual microphones for noise reduction and an echo elimination for clear voice output, even in such noisy environments as airport and Metro
- » Equipped with An 8-megapixel HD front camera and a 13-megapixel HD rear camera, ensuring clear image shooting in low-illumination environments
- » Uses the under-glass fingerprint identification technology to integrate components with the touchscreen to ensure information security, facilitate operations, and meet waterproofing and anti-fouling requirements of harsh environments

Wireless Connectivity for Limitless Communications

- » Support for enterprise networks working on the 1.4 GHz and 1.8 GHz bands and public GSM/UMTS networks allows for public/enterprise network convergence and multi-network coordination
- » Support for the fast and accurate positioning provided by BeiDou, GPS, and GLONASS

Open Platform for Third-Party Applications

- » Support for such accessories as Bluetooth PTT microphones or cameras
- » Android OS supporting the development of abundant industry-specific applications

Stable and Secure for Any Environment

- » Support for IP67 high protection and professional anti-drop design, complying with MIL-STD-810G
- » Support for bi-directional authentication, air interface encryption, remote enabling and disabling, and E2E service encryption

Specifications

Item	Specifications
Dimensions (H x W x D)	159.2 mm x 76.4 mm x 14 mm
Weight	< 230 g (with antenna and battery)
Battery	3200 mAh
Display	5.2 inches
Front camera	8-megapixel
Rear camera	13-megapixel
Positioning	GPS, BeiDou, and GLONASS
Wi-Fi	2.4 GHz, 5 GHz, and IEEE 802.11 b/g/n
Bluetooth	4.1 EDR
NFC	Supported
Enterprise network operating bands	1.4 GHz: 1447 MHz to 1467 MHz 1.8 GHz: 1785 MHz to 1805 MHz Others: Band 20/26/28
Public network operating bands	GSM: 900 MHz/1800 MHz/1900 MHz UMTS: Band 1/2/8 LTE: Band 1/2/3/4/5/7/8/20/26/28/38/39/40/41
Operating temperature	-20°C to +55°C
Relative humidity	5% to 95% (non-condensing)
IP rating	IP67



EP682 eLTE Handheld Terminal



The EP682 is equipped with an Android 8.0 OS, a Kirin octa-core CPU, an 8-megapixel front camera, and a 13-megapixel HD rear camera. It supports a wide range of bands on both enterprise and public networks. With the IP68 protection, the EP682 can be used in public safety, energy industries, and transportation, enabling professional trunking dispatching, multimedia dispatching, and broadband data access services.

Product Details

Lightweight Design and Abundant Configurations

- » Compact and portable, digital keyboard design, easy to operate
- » PTT key, emergency call key, and multipurpose key, enabling convenient broadband trunking services
- » Kirin octa-core CPU, an 8-megapixel front camera, and a 13-megapixel HD rear camera
- » 2.0-inch QVGA pixel professional display, featuring with strong, durable, and compact resistance characters
- » Replaceable 3540 mAh battery with a standby duration longer than 72 hours
- » Dual-SIM card design to facilitate collaboration between public and enterprise networks

Multimedia Dispatching with Excellent Performance

- » Support for P2P calls, group calls, SMS and MMS messages, video upload, and mobile office
- » Support for group call setup delay of less than 300 milliseconds and call preemption delay of less than 150 milliseconds
- » Support for 1080P 25 FPS HD video upload, dispatching, and distribution
- » Compatible with digital/analog DMO, meeting communication requirements anytime and anywhere

Security and Reliability

- » Bidirectional authentication, air interface encryption, remote enabling and disabling, and E2E service encryption
- » Equipped with IP68 high protection and can be properly used after being submerged 1 m underwater for 30 minutes
- » Professional anti-drop design, complying with the MIL-STD 810G standard

Specifications

Item	Specifications
RF Specifications	
	400 MHz: 380 MHz to 450 MHz
Enterprise network operating bands	1.4 GHz: 1447 MHz to 1467 MHz 1.8 GHz: 1785 MHz to 1805 MHz Others: Band 20/26/28
Public network operating bands	GSM: 900 MHz/1800 MHz/1900 MHz UMTS: Band 1/2/8 LTE: Band 1/2/3/4/5/7/8/20/26/28/38/39/40/41
Operating bandwidth	400 MHz: 3 MHz/5 MHz/10 MHz/20 MHz 1.4 GHz: 5 MHz/10 MHz/20 MHz 1.8 GHz: 5 MHz/10 MHz/15 MHz/20 MHz Others: Complies with 3GPP 36.101
Operating bands in DMO	380 MHz to 470 MHz
Hardware Specifications	
Processor	Kirin octa-core CPU
Display	2-inch touchscreen with a resolution of 240 x 320
Internal storage	2 GB RAM + 16 GB flash
External storage	MicroSD (128 GB at most)
Rear camera	13-megapixel
Front camera	8-megapixel
Battery capacity	3540 mAh
Speaker power	2.5 W at most
Positioning	GPS, BeiDou, and GLONASS
Wi-Fi	2.4 GHz, 5 GHz, and IEEE 802.11 b/g/n
Bluetooth	4.0 EDR
External port	HDMI
SIM card type	Hardware SIM card (dual slots, Micro-SIM)
Physical Specifications	
Dimensions (H x W x D)	139 mm x 59 mm x 30 mm
Weight	Less than 305 g (with antenna and battery)
Protection	IP68, 1.2-meter drop resistance design, complies with MIL-STD-810G
Working temperature	-20°C to +55°C
Relative humidity	5% to 95% (non-condensing)
Peripherals and Accessories	
(Optional) voice accessories	Remote speaker microphone, Bluetooth headset, Bluetooth PTT key, Bluetooth remote speaker microphone, lightweight headset, air duct headset
(Optional) video accessories	Law enforcement recorder
(Optional) wearing	Sling and back clip
(Optional) power supply	Battery, charger, and power adapter



EV751 eLTE Vehicle-mounted Trunking Terminal



The EV751 is an integrated brand new vehicle-mounted station for LTE broadband trunking services on enterprise networks. It supports P2P calls, group calls, DMO, short/multimedia messages, broadband data access, smart apps, interconnection with vehicle-mounted cameras, and multi-service concurrency.

Product Details

LTE standard: Support for high-speed data and video services

HD display: Equipped with a 5.0-inch transfective TFT screen of enduring corning gorilla glass

HD voice: Equipped with a loud speaker with 8 W output power at most, allowing the application of EV751 in noisy environments

Endurability and reliability: Meets the IP54 protection in terms of waterproof and dustproof and the ETSI 300 019-1-5 class 5M3 standard in terms of vibration and shock prevention, ensuring high reliability when the EV751 is used in vehicle scenarios

GPS positioning: Support for the GPS function, reaching a positioning precision of less than 10 m in large open areas

Multimedia dispatching: Support for FE connection with an external camera, 1080p HD video upload, dispatching, and distribution; Support for connection with GB/T 28181 and ONVIF cameras

Powerful customization: Provides OS-based various secondary development interfaces and supports third-party customization based on industry characteristics

Abundant external interfaces: Provides various external interfaces such as FE ports, USB ports, serial ports, GPIO ports, and voice output interfaces to connect to different external devices

Encryption and security: Support for air interface encryption and remote enabling/disabling

Wi-Fi hotspot: Support for Wi-Fi that meets the IEEE 802.11 b/g/n standard and can be used as a Wi-Fi hotspot that helps other terminals to connect to the TD-LTE enterprise network

OTA-based upgrade: Support for automatic software upgrades and parameter value modifications through OTA

DMO: Support for DMO, meeting communications requirements anytime and anywhere. Support for compatibility of analog DMO and digital DMO. Support for the ability to encrypt DMO calls after the software upgrade

Specifications

Item	Specifications
Enterprise network operating bands	400 MHz: 380 MHz to 450 MHz
	1.4 GHz: 1447 MHz to 1467 MHz
	1.8 GHz: 1785 MHz to 1805 MHz
Public network operating bands	Others: Band 20/26/28/31
	GSM: 900 MHz/1800 MHz/1900 MHz
Transmit power	UMTS: Band 1/2/8
	LTE: Band 1/2/3/4/5/7/8/20/26/28/31/38/39/40/41
Dimensions (H x W x D)	1.8 GHz: 24 dBm ± 2 dBm
	1.4 GHz: 24 dBm ± 2 dBm
	400 MHz: 26 dBm ± 2 dBm
Weight	DMO: 30 dBm ± 2 dBm
	Control head: 78 mm x 207 mm x 37 mm
Operating temperature	Body: 140 mm x 170 mm x 48.5 mm
	2 kg
IP rating	Operating temperature
	IP54
Display	–20°C to +60°C
	5.0-inch touchscreen with a resolution of 1280 x 720 TFT
Memory	3 GB RAM and 32 GB flash
	Dial, emergency call button, handheld microphone interface, two programmable keys, and hang-up key
Front buttons	Multipurpose dial on top for volume, group selection, and adjustment of DMO frequency
	External: LTE/DMO/GPS
Dial	Internal: WLAN and Bluetooth
	4.0 EDR
Antennas	DVI, power supply, LTE/GPS antenna, and handheld microphone
	Support for FE connection with an external camera, 1080p HD video upload, dispatching, and distribution
Bluetooth	Support for connection with GB/T 28181 and ONVIF cameras
	Support for connections of an onboard or roof-mounted camera and the EV751 multifunction FE port for improved video surveillance
External ports	Safety standard
	EN60950 (2006E)
External cameras	Impact resistance
	ETSI 300 019-1-5 class 5M3 standard
Safety standard	GB 4798.5 class 5M4 standard
	Model approval by SRRC
Impact resistance	Certification
	CE
Certification	RoHS



EC310 Smart 4G HD Body Worn Camera

EC310 is a 4G HD body worn camera based on a HiSilicon smart chip. This device supports functions such as 4K high-quality video recording, 1080p real-time video transmission, infrared night vision, GIS positioning, local storage, and centralized management. Featuring a compact size, it is lightweight and easy to carry.

Functions and Features

Public and Enterprise Network Broadband for Real-Time Commanding

- » Supports universal frequency bands on public and enterprise networks, including 1.4 GHz and 1.8 GHz frequency bands on enterprise networks and 3GPP-compliant LTE frequency bands.
- » Provides video dispatching for real-time commanding, such as one-key real-time video upload, GIS positioning, and SOS emergency report.
- » Allows for independent use in standalone mode, enabling offline operations.

Security, Reliability, and Convenience

- » Supports the IP68 rating for water and dust resistance and provides a 2 m anti-drop design in compliance with U.S. military standard MIL-STD-810G.
- » Enables quick and easy operations, such as photographing, recording, PTT, and SOS services with a physical key design.
- » Provides a removable battery that allows for uninterrupted power supply for 3 to 5 minutes during battery replacement.

Complete Voice and Video Management

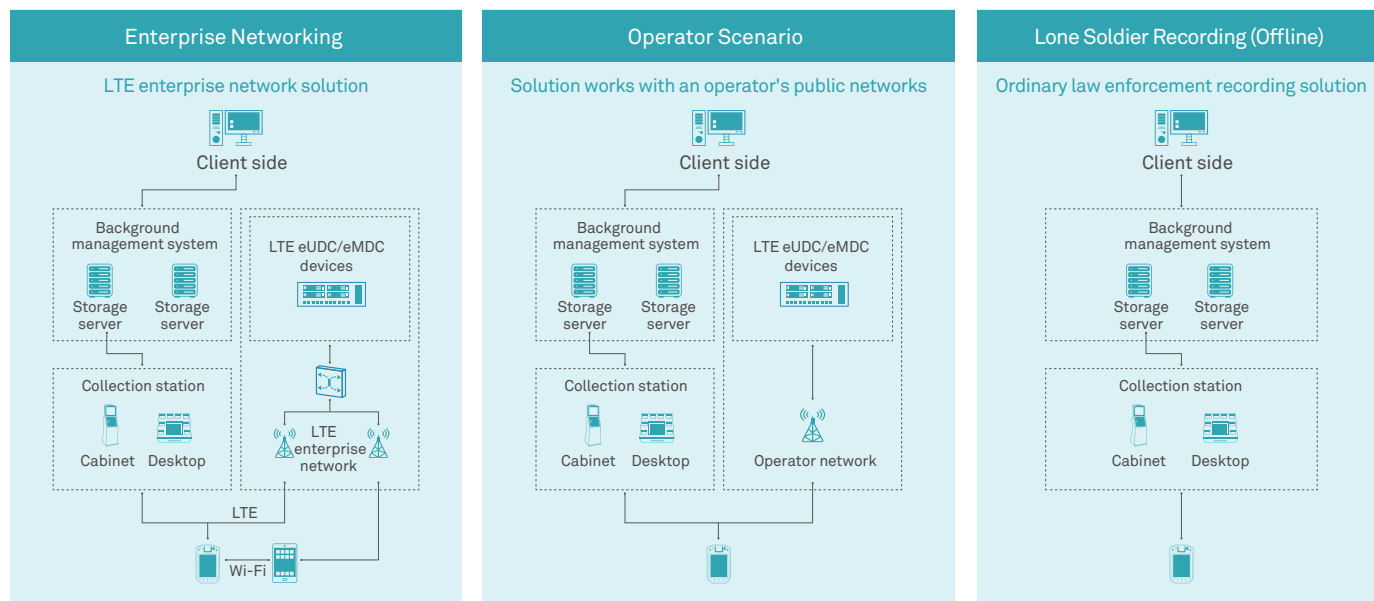
- » Provides a complete solution, covering a body worn camera, a collection station (desktop or cabinet-type), a background management system, and an eUDC and an eMDC that can be configured and purchased independently.

Intelligent Hardware and Powerful Configuration

- » Provides the capability of expanding frontend intelligent applications based on a HiSilicon MobileCam AI chip.
- » Integrates a 1/2-inch CMOS sensor and an 8-megapixel camera featuring 4K video recording with anti-jitter, automatic white balance, and infrared night vision functions.
- » Supports dual microphones and one 1 W large-power speaker.
- » Enables joint positioning using GPS, BeiDou, and GLONASS.



Typical Applications



Technical Specifications

RF Specifications

LTE bands	Enterprise networking scenario: TDD 1.4 GHz, 1.8 GHz, band 20/26/28/38/40 Public network operator scenario: Band 1/2/3/4/5/7/8/39/41
WCDMA bands	Band 1/2/5/8
LTE power level	23 dBm

Physical Specifications

Dimensions (H x W x D)	99.7 mm x 61 mm x 24.4 mm
Weight	185g with battery
Protection	IP68, up to 2-meter drop resistance design, complies with MIL-STD-810G
Port	Mini USB port
Keys	Power-on/off key, photo shooting button, video recording button, voice recording button, SOS button, PTT button, menu button, confirm button, up/down keys, and other function keys
Operating temperature	-30°C to 55°C

Hardware Specifications

Processor	HiSilicon MobileCam AI hardware platform
Display	2.8 inches
Storage	2 GB RAM + 32 GB ROM
Camera	Supports the 128° horizontal angle and allows for 4K video recording with anti-jitter, automatic white balance, and infrared night vision functions.
Battery capacity	2500 mAh removable battery Allows for uninterrupted power supply for 3 to 5 minutes during battery replacement (in recording state).
Loudspeaker rated power	1 W
MIC	Dual microphones
WLAN	IEEE 802.11b/g/n
Bluetooth	Bluetooth 4.0 EDR, providing Bluetooth PTT button functions
Positioning	GPS+Beidou+GLONASS
SIM card type	Single SIM card

Docking Station

The set of body worn camera and docking station is the best choice for police officers, security guards, and other professionals. Docking stations can be used to manage and store data comprehensively and are easy to maintain even in harsh environments. Docking stations support management of data from body-worn cameras and simultaneous charge and data download from BWC.

There are two types of docking stations: eMD-120 desktop and eMD-240 cabinet.

eMD-120 Desktop Type Docking Station



Highlights

- » Equipped with a 18.5-inch touchscreen with a resolution of 1366 x 768P, 4HDD
- » Support for data upload and recharging of 12 body-worn cameras simultaneously
- » Support for first-priority upload by a specific channel
- » Support for charge and data collection of body-worn cameras simultaneously
- » Support for resumable data transfer, automatic storage clearing, and automatic archiving
- » Equipped with high security level protection, allowing only authorized users to access the device

Specifications

Item	Specifications
Hardware Specifications	
Dimensions (H x W x D)	50 cm x 35 cm x 27 cm
Weight	About 25 kg
Display	18.5-inch high-precision infrared touchscreen using reinforced glass
Resolution	≥ 1366 x 768, 1280 x 1024 (advanced configuration)
Industrial-grade USB hub	Quick charge: In standard configurations, a charging current of 5 V 1 A is used and 2 A quick charge is supported. Each USB port has an ESD protection circuit.
Port quantity	Twelve standard USB 2.0 ports or ports for specified body worn cameras. Twelve USB 3.0 ports can be provided as required.
Slot quantity	Twelve independent slots are available to avoid taking a device by mistake.
Main control board	Intel industrial-grade main control board
Memory capacity	4 GB, 1333 MHz
Storage capacity	2-40 TB

eMD-240 Cabinet Type Docking Station



Highlights

- » Equipped with a 19-inch touchscreen with a resolution of 1280 x 1024, 8HDD
- » Support for data upload and recharging of 24 body-worn cameras simultaneously
- » Support for first-priority upload by a specific channel
- » Support for charge and data collection of body-worn cameras simultaneously
- » Support for resumable data transfer, automatic storage clearing, and automatic archiving
- » Equipped with high security level protection, allowing only authorized users to access the device

Specifications

Sub-item	Specifications
Dimensions (H x W x D)	1500 mm x 478 mm x 316 mm
Weight	About 50 kg
Color	Black, with silver white decoration
Structure	Cold-rolled steel plate
Material	Sheet metal
Shell IP rating	IP20
Security lock	Mechanical lock
Storage capacity	2–80 TB in non-RAID mode
Display	19-inch touchscreen with a resolution of 1280 x 1024; liquid crystal display; brightness of greater than or equal to 350 cd/m ²
Collection port	Mini USB port
Full-load collection speed	≥ 5.4 Mbit/s
Charging specifications	5 V, 1 A
Body-worn camera slot quantity	24
Operating environment	Temperature: –10°C to 55°C Relative humidity: ≤ 93%



Vehicle-mounted Camcorder

Features

- » 1/3-inch Progressive Scan CMOS
- » 23x optical zoom (3.3 mm to 119 mm focal length)
- » Support for ICR IR filter, automatic day-to-night conversion, and day or nighttime monitoring
- » Support for TDD 1.4 GHz/TDD 1.8 GHz
- » Precise autofocus and 3-second zoom
- » Excellent image SNR
- » 100% proprietary auto-focus and auto-exposure algorithms
- » Pan-Tilt-Zoom (PTZ) all-weather design with an aluminum-alloy external shell, sunshade, and rain wiper
- » Full night-vision video surveillance, rapid target capture, and infrared night vision up to 100 meters
- » Optional shock absorbers for vehicle scenario installation



Technical Specifications

Camera

Sensor type	1/3-inch Progressive Scan CMOS
Video output	HD-TVI
Video resolution	50 Hz: 25 FPS (1280 x 720); 50 Hz: 50 FPS (1280 x 720)
SNR	52 dB
Minimum illumination	Color: 0.05 Lux @ (F1.6, AGC ON) Black and white: 0.01 Lux @ (F1.6, AGC ON)
Focal length	4 mm to 92 mm
Aperture	F1.6 to F3.5
Horizontal FOV	58.3° to 3.2° (wide angle/telephoto)
Minimum distance	10 mm to 1500 mm (wide angle/telephoto)
Day-to-night conversion	ICR IR filter

PTZ

Horizontal	360° unlimited rotation
Vertical	+90° to -90°

Other Specifications

Power supply	12 V DC ± 10%
Relative humidity	90%
IP rating	IP66
Operating temperature	-35°C to +55°C
Power consumption	< 50 W
Impact resistance	≥ 4 g
Weight	6 kg

eLTE Enhanced Dome Camera

The DS-MH6171 series dome camera integrates HD video surveillance system that supports video and voice encoding and decoding, UMTS/LTE/Wi-Fi network transmission, and satellite positioning. It is applicable to various surveillance environments in the public safety, judicial, transportation, energy, finance, and buildings.



Product Details

- » 1080p HD video and clear images
- » Low-light operation and 0.05 Lux @ F1.6 for color video
- » Automatic color to black and white for nighttime monitoring
- » Fast and accurate autofocus
- » Digital dynamic panoramic view
- » 3D-DNR
- » Dual-SD card storage
- » Automatic compensation for backlit scenarios
- » C71 series supporting TDD 1.4 GHz and 1.8 GHz
- » C80 series supporting band 26
- » Removable battery capable of 6-hour continuous running
- » Special anti-fog image enhancement
- » High SNR for clear images
- » Powerful magnetic base for easy installation

Item	Specifications
Sensor type	1/2.8-inch Progressive Scan CMOS
Minimum illumination	Color: 0.05 Lux @ (F1.6, AGC ON) Black and white: 0.01 Lux @ (F1.6, AGC ON)
Day-to-night conversion	ICR IR filter
SNR	> 52 dB
Shutter speed	1/1s to 1/30000s
Digital zoom	12x
Image resolution	50 Hz: 25 FPS (1920 x 1080)
	60 Hz: 30 FPS (1920 x 1080)
	50 Hz: 25 FPS (1280 x 720)
	60 Hz: 30 FPS (1280 x 720)
3D DNR	Supported
Optical zoom	30x, 360°
Vertical rotation	-15° to 90°
Memory	Dual SD cards (128 GB at most)
Positioning	GPS and BeiDou
Bluetooth	BT4.0
Power supply	12 V DC
Wi-Fi	IEEE 802.11 a/b/g/n
Infrared compensation range	60 m to 80 m
Power consumption	< 60 W
Video coding	H.264/H.265
External ports	Serial, Ethernet, and alarm
Smart technology	Facial capture
Smart tracking	Supported
Mobile deployment	Supported
Operating environment	Operating temperature: -10°C to +55°C Relative humidity: < 90% (non-condensing)
IP rating	IP66
Other details	Main unit: about 2.8 kg (with battery)

Accessories

Bluetooth Headset

A common Bluetooth headset can be used to answer calls and make voice calls on the public network. The dedicated Bluetooth PTT button is designed for the PTT function.



Item	Specifications
Bluetooth version	3.0 Support for A2DP1.2/AVRCP1.4/HFP1.6
Airtime	5 hours
Standby duration	> 120 hours
Allowed distance	10 m
Charge interface	Micro USB
Certification	CE, FCC, CEC, SRRC, and BQB
Other details	Single-ear

Bluetooth PTT Button

In scenarios where the headset does not support the PTT function or a wired PTT is inconvenient for use, this configurable Bluetooth PTT accessory can be equipped.



Item	Specifications
Bluetooth version	2.1
Allowed distance	10 m
Operating temperature	-20°C to 55°C
Certification	CE/RoHS/FCC

Bluetooth Remote Speaker Microphone

- » Model: BTH-500
- » A Bluetooth remote speaker microphone is connected to the host through the Bluetooth protocol. Compared with a wired microphone, a Bluetooth remote speaker microphone is more convenient because it is functional when users are in moving state.



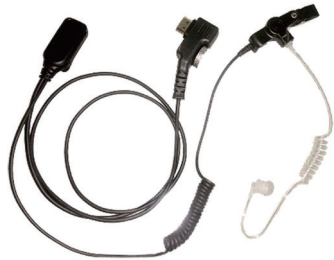
- » Technical specifications are as follows.

Item	Specifications
Bluetooth version	4.1
Allowed distance	10 m
Operating temperature	-15°C to 50°C
Weight	126 g
Dimensions (H x W x D)	86 mm x 60 mm x 42 mm
Battery capacity	1000 mAh
Airtime	> 16 hours
Output power	2 W
Charging interface	Micro USB
Certificates and standards compliance	CE/RoHS/REACH
IP rating	IP56

Accessories

Air Duct Headset

An air duct headset applies to scenarios requiring noise control and concealment.



Item	Specifications
Speaker impedance	32 ohms
Speaker sensitivity	108 dB \pm 2 dB @ 1 kHz 950 mV
Microphone sensitivity	-39 dB \pm 2 @ 1 kHz 3 V
Headset directionality	Omnidirectional
Certification	CE/REACH/RoHS

Handheld Radio Microphone

For street patrol or on-site command and dispatching personnel, this handheld microphone can be clipped to collars.



Item	Specifications
Speaker impedance	16 ohms
Speaker rated power	2 W
Microphone sensitivity	-42 dB @ 1 kHz
Connector	HDMI A male
Certification	CE/RoHS
Other details	Rotatable clip

Lightweight Over-Ear Headset

An over-ear headset is applicable to fast moving environment and the environment where noises caused by wind or machines are strong.



Item	Specifications
Speaker impedance	32 ohm \pm 5%
Speaker sensitivity	108 dB \pm 4 dB @ 1 kHz
Microphone sensitivity	-42 dB \pm 3 dB
Microphone impedance	2.2 kilohms
Certification	CE/REACH/RoHS

Throat Vibration Headset

A throat vibration headset has a strong anti-environmental noise capability, which is compact and can adapt to various helmets. If you are on a motorcycle, you can wear the throat vibration headset equipped with a PPT button on your finger.



Item	Specifications
Speaker impedance	32 ohms
Speaker sensitivity	115 dB \pm 3 dB
Microphone type	Vibration
Certification	CE/REACH/RoHS

Over-Ear Headset

Over-Ear HeadsetAn over-ear headset is designed to reduce noises in scenarios with strong noises.



Item	Specifications
Speaker impedance	8 ohms
Speaker sensitivity	79 dB \pm 3 dB
Microphone impedance	680 ohms
Microphone sensitivity	-56 dB \pm 3 dB
Certification	CE/REACH/RoHS

Headband Camera

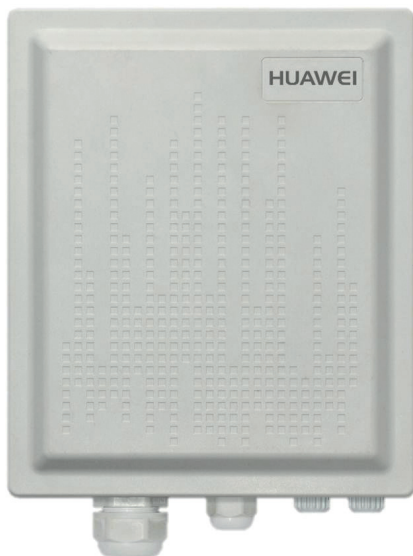
The headband camera connects to a multifunction port on the terminal, allowing you to collect on-site video with ease. By using a headband camera, you can keep both hands free during video recording and uploading. The current other operations of the user will not be affected.



Item	Specifications
Video Sensors	1/3-inch CMOS
Port	USB 2.0
Operating temperature	-20°C to +55°C
Storage temperature	-40°C to +70°C
IP rating	IP55



Outdoor CPE: EG860



EG860, a broadband wireless router based on the TD-LTE technology, is used for broadband data access. It can access LTE networks using network interfaces or Wi-Fi to implement data collection and wireless HD video surveillance.

Product Highlights

LTE Standard

Operates within the TD-LTE network. Provides high-speed data services. Supports DL 100 Mbit/s and UL 50 Mbit/s to the maximum.

Protection rating

IP65, works normally in harsh environments.

Antenna Design

- » Built-in high-gain antennas (TDD 1.4 GHz&1.8 GHz) for easy installation. In addition, it can be installed with an external antenna to ensure normal use in the case of poor signal quality.
- » Receive diversity and load balancing are supported to maximize the network coverage and maximize the network value.

Easy Maintenance

- » The user-friendly LED indicator design facilitates the observation of the device status.
- » Web-based management, which is convenient and intuitive.

High-speed Routing

Provides the built-in DHCP Server, DNS Client and NAT functions to enable high-speed routing.

Secure and Stable

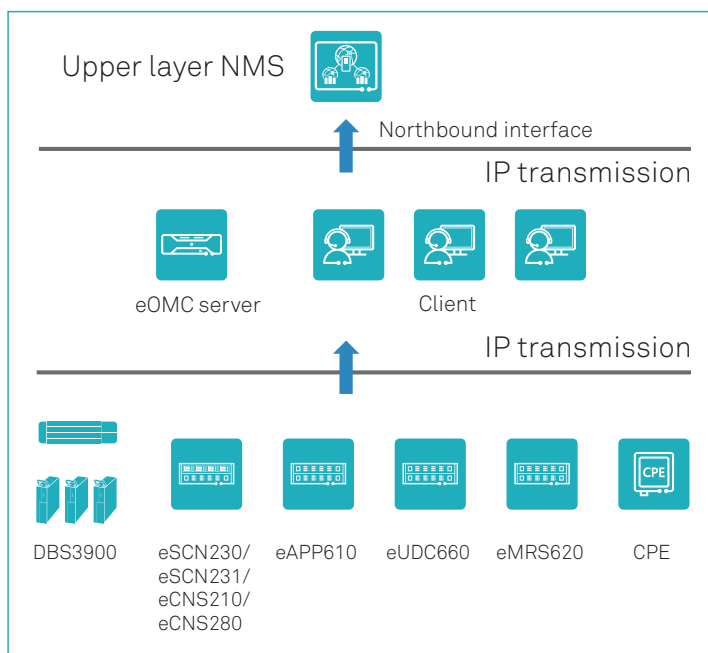
Provides various security services to protect the system against potential security risks and illegal intrusion.

Product Specification

Item	Specification
Technical standards	WAN: LTE TDD 3GPP Release 9
	LAN: IEEE 802.3/802.3u
	WLAN: IEEE 802.11b/g/n
Working frequency band	1.8 GHz: 1785 MHz to 1805 MHz
	1.4 GHz: 1447 MHz to 1467 MHz
	800 MHz (FDD): UL: 832 MHz to 862 MHz DL: 791 MHz to 821 MHz
Working bandwidth	400 MHz: 380 MHz to 450 MHz
	WLAN 2.4 GHz
Antenna gains	TDD 1.8 GHz: 5 MHz/10 MHz/20 MHz
	TDD 1.4 GHz: 5 MHz/10 MHz/20 MHz/800 MHz: 5 MHz/10 MHz/20 MHz/400 MHz: 3 MHz/5 MHz/10 MHz/20 MHz
	1.8 GHz: built-in antenna: ≥ 7.5 dBi; external antenna: ≥ 10 dBi
Transmit power	1.4 GHz: built-in antenna: ≥ 7.5 dBi; external antenna: ≥ 5 dBi
	800 MHz: external antenna: 5 dBi
	400 MHz: external antenna 380 MHz to 410 MHz/410 MHz to 440 MHz/440 MHz to 450 MHz: ≥ 3.5 dBi/380 MHz to 450 MHz: ≥ 1.5 dBi WLAN: ≥ 2 dBi
UE Cat.	TDD 1.8 GHz ≤ 23 dBm(+2/-2)
	TDD 1.4 GHz ≤ 23 dBm(+2/-2)
	FDD 800 MHz ≤ 23 dBm(+2/-2)
Power consumption	TDD 400 MHz ≤ 25 dBm(+2/-2)
	802.11g: <15 dBm
	802.11b: <16 dBm 802.11n: <13 dBm
Power supply	48V POE or DC 24V 2A
Dimensions (H×W×D)	240mm × 200 mm × 61 mm
Weight	2000 g
Temperature	Operating: -40°C to $+50^{\circ}\text{C}$ Storage: -40°C to $+70^{\circ}\text{C}$
Humidity	5%~95%
Installation method	Pole/Wall installation
Ingress protection rating	IP65
Shock standard	ETS 300 019-1-5 class 5M3
Certification	CTA, CE, RoHS

eOMC910 Integrated Network Management System

eOMC910 Network Position



The eOMC910 is an integrated network management system for managing all NEs (including broadband access terminals) on enterprise wireless networks, and provides professional device management for the trunking network. A typical eOMC910 comprises a server and clients.

Product Highlights

Integrated and Unified Management Platform

Supports centralized management of trunking network devices such as broadband access terminals, eNodeBs, core networks, eMDCs, eUDCs, eMRSs, and E2E encryption agent servers. Supports logical management on other or third-party equipment to form a unified network topology.

Powerful Equipment Management

Provides professional NE management, including topology management, configuration management, performance management, fault management, software management, license management, security management, system management, log management, and preventive maintenance.

Easy Operation and Maintenance

Features a user-friendly GUI for operation and maintenance, instead of complicated command lines.

High Reliability

Provides high reliability through professional analysis and design pertaining to data security, operation security, software reliability, and hardware reliability.

Flexible Networking

Supports management for networks with various scales.

Open and Integrated

Reports information, such as equipment resources, alarms, performance files of NEs, and configuration files of the CPE (EG860), to the connected third-party network management system through the northbound SNMP interface.

eOMC910 Hardware Server 2288H V5



Index	Medium-sized Server	Large-sized Server
Dimensions (H x W x D)	86.1 x 447 x 708 (mm)	
Working voltage&Weight	100V AC ~ 240V AC, 25.1Kg	
Processor	Two 8-core CPU (Intel Xeon Silver 4110)	Two 6-core CPU (Inter Xeon Gold 6130)
Memory	2 x 32 GB memory	4 x 32 GB memory
Storage	4 x 600 GB Hard disks	5 x 1200 GB Hard disks
Management capability (equivalent eNodeBs *)	225	550

Equivalent eNodeBs *: An equivalent eNodeB is a method of converting the load that is added when other NEs are connected to the eOMC into the load added by the eNodeB. In this method, the eNodeB functions as an NE. Each type of NE is converted into a certain quantity of equivalent eNodeBs based on service requirements.

Huawei DBS3900

The DBS3900 is a distributed base station used for wireless access on LTE enterprise networks. The DBS3900 mainly handles Radio Resource Management (RRM), including air interface management, access control, mobility management, and UE resource allocation. The flexible distributed architecture of the DBS3900 is designed to meet industry customer requirements for wireless network construction to expand coverage and improve user experience.

The DBS3900 comprises two basic modules: the Baseband Unit (BBU) and the Remote Radio Units (RRUs). The RRUs have fiber-optic CPRI connections to the BBU.

BBU

The BBU processes baseband signals and provides a range of O&M functions. The BBU allows for:

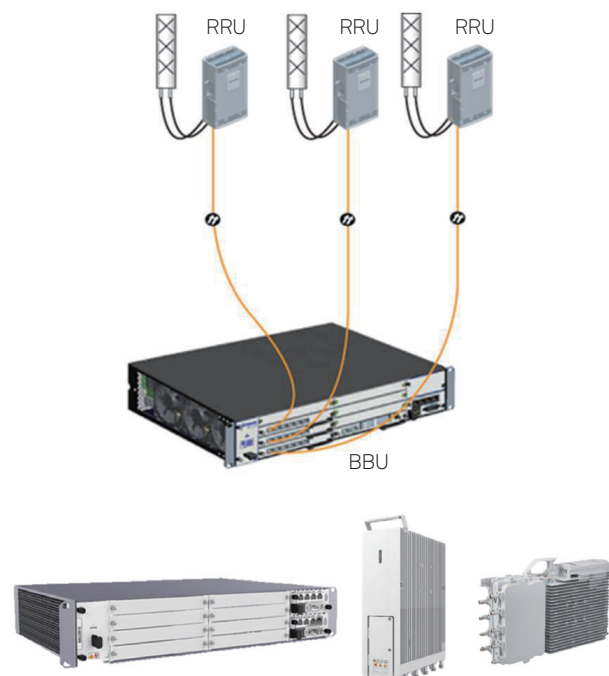
- » Management of the entire base station, including O&M, signaling processing, and a system clock
- » Connection to and data exchange with the transmission network
- » Connection to the O&M platform
- » Communication with RRUs and processing of uplink and downlink baseband signals
- » Receiving and forwarding of signals from the environmental monitoring equipment

RRU

The RRU is a part of the distributed base station. It can be pole-, rack-, or wall-mounted or installed near the antenna so that the feeder can be shorter, which reduces signal loss and expands coverage. The primary functions of an RRU are:

- » Baseband and RF signal modulation and demodulation
- » Data processing
- » Signal amplification
- » Standing wave detection

DBS3900



Product Details

Distributed Architecture

The DBS3900 has a distributed architecture. The BBU and the RRUs of a DBS3900 are deployed separately and can be configured to reduce feeder loss or improve eNodeB coverage. RRUs are not limited to the equipment room. They can be mounted remotely on a pole or wall, eliminating the need for an equipment room. The use of RRUs reduces network construction costs and accelerates network deployment.

Efficient and Environment-friendly

Cutting-edge power amplifier design and innovative new power management technologies used by the DBS3900 enable Huawei RRUs to consume 40% less power than similar products from other manufacturers. This makes it possible to use green energy, such as solar, wind energy, and methane, to provide power to eNodeBs.

Real-time Monitoring

The DBS3900 provides multilevel tracing and detection functions, including user, interface, and message tracing, fault detection on the physical or data link layer, and other fault detection functions. In addition, you can save trace data for later use, letting you review historical message tracing at your convenience.

Specifications

Sentence caps	Specifications
Maximum number of online users per base station	9,600
Maximum number of cells per base station	18
System availability	≥ 99.999%
Mean time between failures (MTBF)	≥ 155,000 hours
Mean time to repair (MTTR)	≤ 1 hour
Maximum number of concurrent voice calls	16,000
Frequency bands	TDD 400 MHz/1.4 GHz/1.8 GHz/2.3 GHz FDD 450 MHz (B31)/700 MHz (B28)/ 850 MHz (B26)/1800 MHz (B3)/ 700 MHz (B68)



eLTE Core Network eCNS280



The eLTE core network eCNS280 adopts Huawei NFV architecture, housing several LTE standard network elements, such as the MME, HSS, S-GW, P-GW, PCRF, and TSN in one box.

The space-saving, easy-to-deploy OSTA5.0 is used as the infrastructure, meeting reliability requirements for large-capacity customer services.

Hardware Specifications

Sentence caps	Specifications
Mechanical specifications	
Dimension (H x W x D)	130.5 mm x 442.0 mm x 675.0 mm
Weight of a subrack with full configuration	47.8 kg
Power specifications	
Rated input voltage range	<ul style="list-style-type: none"> DC subrack: -48 V DC to -60 V DC AC subrack: 200 V AC to 240 V AC
Rated power	<ul style="list-style-type: none"> DC subrack: 2400 W (the rated power of each PEM is 2400 W) AC subrack: 2000 W (the rated power of each PEM is 2000 W)
Environment parameters	
Temperature	<ul style="list-style-type: none"> DC subrack: <ul style="list-style-type: none"> Long-term operating temperature: 0°C to 45°C (32°F to 113°F) Short-term operating temperature: -5°C to +55°C (23°F to 131°F) AC subrack: <ul style="list-style-type: none"> Operating temperature: 0°C to 40°C (32°F to 104°F)
Humidity	<ul style="list-style-type: none"> Long-term operating humidity: 5% RH to 85% RH (non-condensing) Short-term operating humidity: 5% RH to 95% RH (non-condensing)
Altitude	-60 m to +4000 m

Capacity Specifications

Sentence caps	Specifications
Maximum number of accessed eNodeBs	2,500
Maximum number of subscribers	200,000
Maximum number of online users	200,000
Maximum number of online groups	20,000
Maximum number of concurrent groups	4,000
Maximum number of concurrent voice calls	16,000

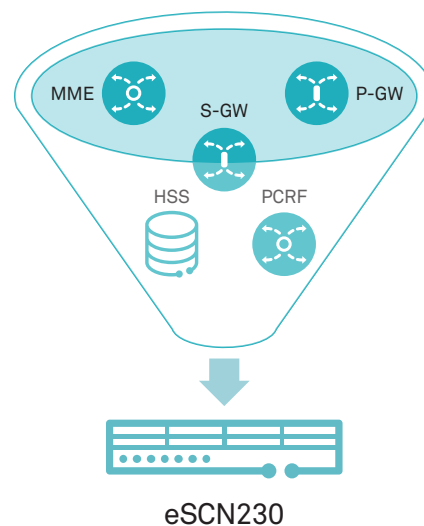
eLTE Core Network eSCN230



The eSCN230 is a 2 U LTE integrated Evolved Packet Core (EPC), which provides a compact, cost-effective broadband trunking solution. This solution offers high reliability and is ideally suited for small- and medium-sized enterprise networks.

Miniaturization and High Integration

- » Huawei has designed the highly-integrated eSCN230 by combining a Home Subscriber Server (HSS), Serving Gateway (S-GW), Mobility Management Entity (MME), and Packet Data Network Gateway (P-GW) in a 2 U, lightweight box. This easily deployed system provides exceptional flexibility for low-density-subscriber-area deployments.
- » It provides eight slots for service boards, two slots for power boards, and one slot for a fan module.

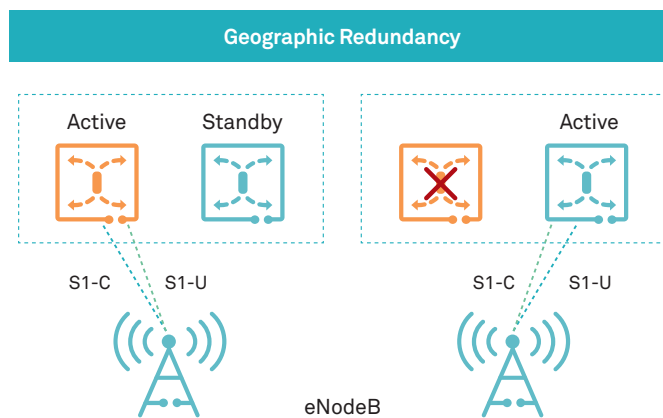


High Reliability

- » Geographic redundancy: When the active eSCN230 becomes faulty, services are interrupted. After the standby eSCN230 detects the fault, an active/standby switchover is triggered. Services are taken over by the standby eSCN230.
- » PS pool: In PS-only service scenarios, the eSCN230 implements NE-level upgrade, redundancy and backup, and load sharing through pool networking.
- » Transmission link backup: In one board, multiple GE interfaces connect to the Trunk, allowing load sharing and backup of transmission links.

Other Functions

- » The eSCN230 implements simple firewall functions to filter invalid data flow. The system notifies a user of attacks when it is being attacked.
- » The eSCN230 supports multiple security functions: SSL security protocol, authentication and integrity protection, IPsec, and security auditing, etc.
- » Routing Behind MS allows multiple terminals to access the eLTE network through one wireless terminal and communicate with the system equipment.
- » The eSCN230 completes user sign-in and user sign-off during start-up and shut-down. It implements mobility management and periodic tracking area update of terminals that are in idle status.



Hardware Specifications

Dimensions (H × W × D)	86mm × 442mm × 310mm
Weight	≤ 6.85 kg (full configuration)
Power supply	-38.4 V DC to +57 V DC
Power consumption	133.5 W (1 CNPUB + 1 UTRPc)
Working temperature	-20°C to 55°C

Performance Specifications

Maximum number of subscribers	8,000
Maximum number of online groups	1,500
Maximum number of eNodeBs	100
Maximum number of concurrent voice services	1024
PS user throughput	2 Gbit/s

Huawei eSE6203 vESS

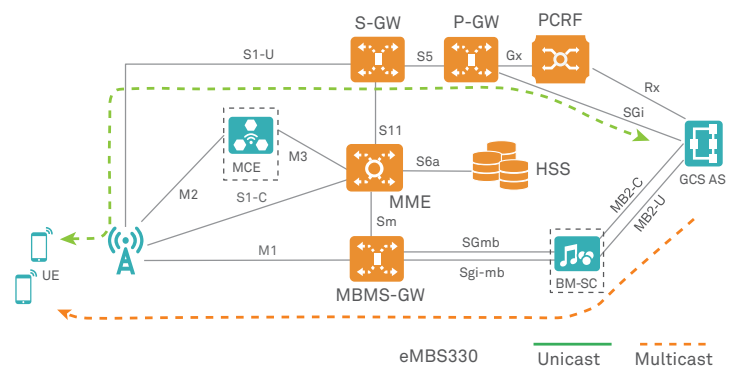
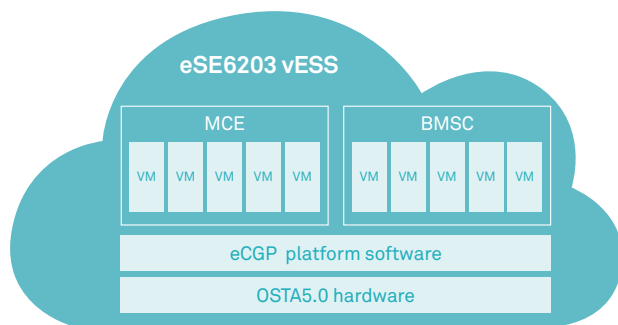
The eSE6203 Enterprise Service System (vESS) is a trunking communications product developed by Huawei for enterprise markets. The eSE6203 vESS product adopts Huawei NFV standard architecture, integrating NEs, such as MCE and BM-SC, as the service layer. The OSTA5.0 (3 U) is used as the infrastructure, meeting reliability requirements for customers' large-capacity services. The OSTA5.0 is space-saving and easy to deploy.

OSTA5.0 hardware Subscribers can select types of hardware with different power consumption, and specifications based on different application scenarios and deployment requirements.

eCGP platform software The eCGP adopts NFVI to virtualize physical resources for virtual service NEs, and provides the following O&M functions: hardware management, device management, and fault location and management.

Service NE Huawei eSE6203 vESS bases on virtualization technologies and integrates the functions of Multi-cell/Multicast Coordination Entity (MCE) and Broadcast-Multicast Service Centre (BM-SC).

eSE6203 vESS



Position of the eSE6203 vESS on a 3GPP trunking network

Characteristics

Flexible Deployment

The eSE6203 vESS allows different NE combinations to adapt to various application scenarios as required by the site condition and customer.

High Integration

The eSE6203 vESS is highly integrated, supports unified management, and delivers the following benefits:

- » Saving labor and maintenance costs
- » Simplifying NE networking
- » Saving power and rental costs

Geographic Redundancy

Dual-eSE6203 vESS-system backup is supported. When the active eSE6203 vESS system becomes faulty, the standby eSE6203 vESS system can take over services carried by the active eSE6203 vESS system.

High Reliability

Key connections and components are connected in dual-bus mode. The eSE6203 vESS uses a dual-plane and interconnection architecture for internal communication. Faults in a single node do not affect the system services.

The software adopts the layered modular structure, enabling the software to provide performance protection, error tolerance, and fault monitoring.

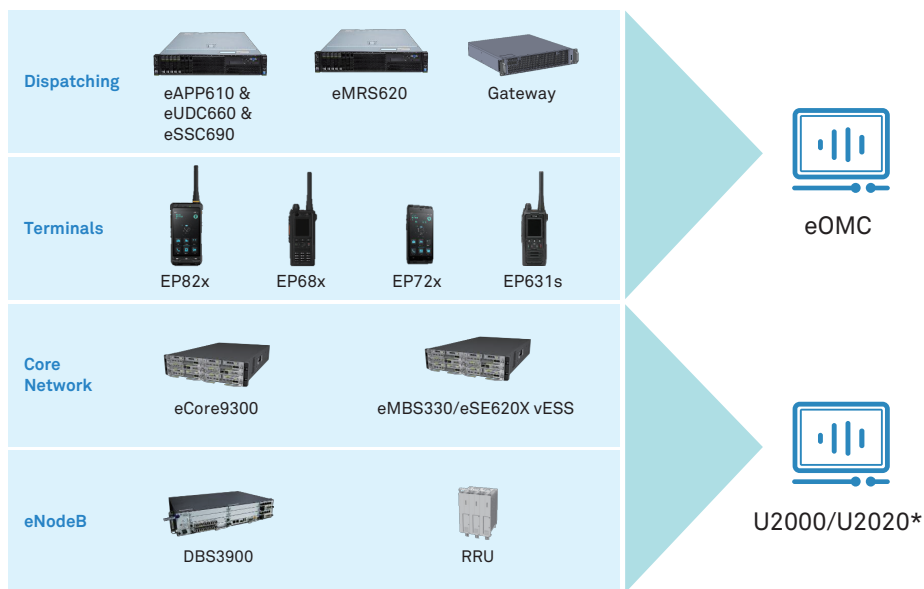
Product Specifications

Item	Performance Specifications
Maximum number of connected eNodeBs	3,000
Maximum number of sessions for trunking	1,000

Item	Specifications
Dimensions	Standard 3 U subrack H x W x D: 130.5 mm x 442 mm x 675 mm
Weight	47.8 kg (full configuration)
Power supply	AC: 200 V to 240 V DC: -48 V to -60 V
Typical power consumption	2000 W (AC) 2400 W (DC)
Environmental specifications	Storage temperature: -40°C to +70°C Long-term working temperature: 0°C to 45°C Short-term working temperature: -5°C to +55°C Humidity: 5% RH to 85% RH (non-condensing)

Network Management System

O&M Solution for 3GPP MCPTT Network



There are 2 O&M elements for the 3GPP MCPTT solution. The eOMC is responsible for managing dispatching equipment and terminals. The U2000/U2020 manages the core network and eNodeB.

U2020*: From the Release 19 version, the U2000 is renamed U2020.

Product Highlights

The U2000/U2020 provides basic functions, such as configuration management, performance management, fault management, security management, log management, topology management, software management, and system management. It also provides a variety of optional functions.

The U2000/U2020 provides standard CORBA, SNMP, file, and alarm streaming interfaces to interconnect with systems from other vendors.

The U2000/U2020 provides services 24/7, making network O&M more intelligent and automatic.

The U2020 supports offline remote redundancy. Two U2020 systems are deployed in different places, one as the active site and the other as the standby site.

U2000/U2020 (PC Server) Specifications

Index	Hardware Specification
Dimensioning (H x W x D)	86.1 mm x 447 mm x 708 mm
CPU	One Inter 20-core processor 2.0 GHz frequency
Memory	4 x 32 GB
Hard disk	8 x 600 GB
Weight	24 kg
Power supply	100 V AC to 240 V AC
Power consumption	320 W
Operating temperature	+5°C to +35°C
Management capability (equivalent NE*)	50

Equivalent NE*: The amount of resources allocated by the U2000/U2020 to manage NEs varies with the NE type. Therefore, a constant ratio is specified for converting physical NEs of each type to equivalent NEs.



Huawei Dispatching System

Features and Highlights

- » Dispatches multimedia services, including voice, data, and video.
- » Interconnects with the customers' legacy systems or external public networks (through gateways).
- » Connects with third-party operation systems (through open interfaces).
- » Manages users and devices.
- » Ensures high reliability through geographical redundancy.
- » Achieves smooth and high scalability through hardware of different sizes, types, and amounts.



Functional Modules

eAPP610

Manages multimedia traffic by converting it to the correct format and distributing it to the correct destinations.

eUDC660

Manages user registration, terminals and their software, peripheral devices, and user permissions. It provides some terminal-based services such as message pushing.

eMRS620

Enables multimedia recording and playback.

eSSC690

Serves as a SIP signaling server, an important function node of the mission-critical push-to-talk (MCPTT) application.

eDC610

Enables operators to manage calls, groups, users, and devices through a GUI.

Hardware Specifications

Item	Specifications
Mechanical Specifications	
Form	2 U rack server
Dimensions (H x W x D)	86.1 mm × 447 mm × 708 mm
Weight	About 25.1 kg
Electrical Specifications	
Working voltage	100 V AC to 240 V AC
Power	Large-sized server: < 481 W Medium-sized server: < 224 W
Hardware Specifications	
Processor	Large-sized server: 2 x X86 series-2600 MHz-1.8 V-64 bit-145000 mW-Haswell EP Xeon E5-2697 v3-14 Core-with heatsink CPU Medium-sized server: 2 x X86 series-2400 MHz-1.8 V-64 bit-85000 mW-Haswell EP Xeon E5-2620 v3-6 Core-with heatsink CPU
Memory	Large-sized server: 64 GB Medium-sized server: 32 GB
Storage	Large-sized server: 5 x 1200 GB hard disks Medium-sized server: 4 x 600 GB hard disks
Network port	Large-sized server: • 2 x 10 GE • 4 x GE Medium-sized server: 4 x GE
Port	Front panel • 2 x USB 2.0 • 1 x DB-15 video port Rear panel • 2 x USB 3.0 • 1 x DB-15 VGA • 1 x DB-9 serial port • 1 x RJ-45 system management port Built-in ports • 1 x USB 3.0 • 2 x Mini SSD hard disk (SATA DOM) ports • 1 x dual-SD port (for the embedded system management program) or 1 x built-in SD card for the BMC management system
Power module	Two hot-swappable 1+1 redundant PSUs, 750 W AC

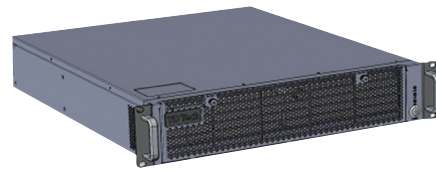
Capacity Specifications

Item	Specifications
User or Group Registration	
Maximum number of registered (online) users	100,000
Maximum number of registered (online) groups	10,000
Voice and Video Service	
Maximum number of concurrent services	4000
SMS/NMS	
Maximum number of concurrent SMSs	50 pieces/s
Maximum number of concurrent MMSs	20 pieces/s
GIS Service	
Maximum number of terminals concurrently performing GIS services (period: 60s)	30,000
Recording	
Maximum number of concurrent voice recordings	2048 (With 4 servers)
Maximum number of concurrent video recordings (D1)	1024 (With 4 servers)



eUPG670

The eUPG670 is a dedicated device for connecting the narrowband and broadband trunking systems. It meets professional trunking interworking requirements such as time delay. It can be quickly deployed and evolved with enhanced features.



Key Features

- » Integrated design: Built-in mobile terminals and power module, one-stop delivery.
- » Flexible integration: Ability to connect to various narrowband systems such as TETRA and analog systems.
- » Easy to expand: AT command-based interconnection with mobile terminals enables the eUPG670 to support enhanced new features such as P2P calls and short messages.
- » Remote configuration: Remote dynamic group selection, volume and working mode setting for the mobile terminals.
- » Low time latency: Less than 500 ms PTT delay with better voicequality.

Item	Specifications
Concurrent voice services (channel)	2
Dimensions (H x W x D)	86.1 mm x 442 mm x 530 mm
Weight	≤ 8.75 kg (excluding the two mobile terminals) ≤ 12.5 kg (including the two mobile terminals)
Working voltage	90V AC ~ 264V AC
Power consumption	≤ 35 W (excluding the two mobile terminals) ≤ 106 W (including the two mobile terminals)
Working temperature	-10°C to +45°C
Storage temperature	-40°C to +55°C