

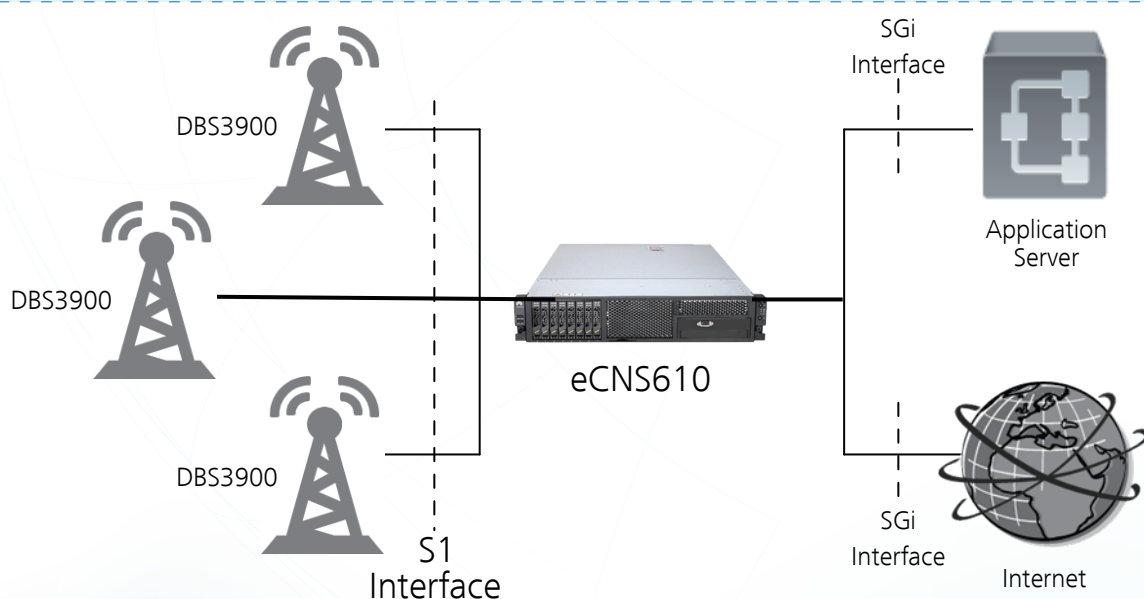
eCNS610

eLTE Core Network for SME Network



The Huawei eLTE (Enterprise LTE) solution customizes the Enterprise Core Network System (eCNS) for industries. The Enterprise Core Network System 610 (eCNS610) is developed by Huawei as a mini-Evolved Packet Core (EPC) for dedicated enterprise market. It provides high integration for small- or medium-sized enterprise wireless networks, and is primarily used for broadband access markets.

Huawei eCNS610 integrates the functions of the following NEs: System Architecture Evolution Home Subscriber Server (SAE-HSS), Mobility Management Entity (MME), Serving Gateway (S-GW), PDN Gateway (P-GW). It also integrates the policy control functions of the Policy and Charging Rules Function (PCRF). The eCNS610 implements operations and maintenance as a single NE.



Highlights

- **Large capacity**

The eCNS610 supports 5,000 subscribers at the same time and 1Gbit/s (512 bytes per packet) throughput for an RH2288 server.

- **Small size**

Base on Huawei Tecal RH2288 server, the eCNS610 is only 2U high.

- **Easy deployment**

The eCNS610 integrates the functionalities of five NEs (SAE-HSS, MME, S-GW, P-GW, and part of PCRF) which simplifies EPC networking and reduces operation and maintenance complexity.

- **Low power consumption**

eCNS610 power consumption is relatively low with maximum power consumption at less than 277W.



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Features and Benefits

- **Mobility Management**
- **Security Management**
 - Authentication
 - User Identity Confidentiality
 - Identify Check
- **Session Management**
- **Path Management**
- **IP Address Allocation from Local Address Pool**
- **Integrated Subscriber Data Management**
- **QoS and Traffic Management**
- **Security Management**
 - NAS Encryption and Integrity Protection (AES)
 - NAS Encryption and Integrity Protection (SNOW3G)
 - Operation and Maintenance (O&M) SSL
- **IP Network management**
 - Routing
 - Static Routes and Default Routes
 - VLAN Support
- **Interface Function**
 - S1 Interface
 - SGi Interface
- **Service Management**
 - Static IP Address Allocation
 - Multiple PDN Connection

Specifications

Performance Specifications

Maximum subscribers	5000
Maximum bearers	15000
Maximum bearers simultaneously activated for a UE	11
Maximum eNodeBs	50
Maximum throughput	1 Gbit/s (512 bytes per packet)

Physical Specifications

Working Temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	–40°C to 65°C (–40°F to +149°F)
Temperature change rate	20°C/h (36°F/h)
Working humidity	8% RH to 85% RH
Storage humidity	5% RH to 95% RH
Altitude	Smaller than or equal to 3000 meters. When it is greater than 900 meters, the working temperature decreases by 1°C every 300 meters.
Input voltage	AC: 100 V to 240 V. DC: –48V to –60 V
Power consumption	277W
Mean Time Between Failures (MTBF)	156,804 hours
Mean Time to Repair (MTTR)	216 seconds
Dimensions (H x W x D)	87.5 mm x 447 mm x 740 mm
Full weight	Net weight: 27 kg Pack weight: 5 kg

Performance Specifications

S1	2 GE 1 or 2 x 10 GE
O&M	2 FE
SGi	2 GE 1 or 2 x 10 GE