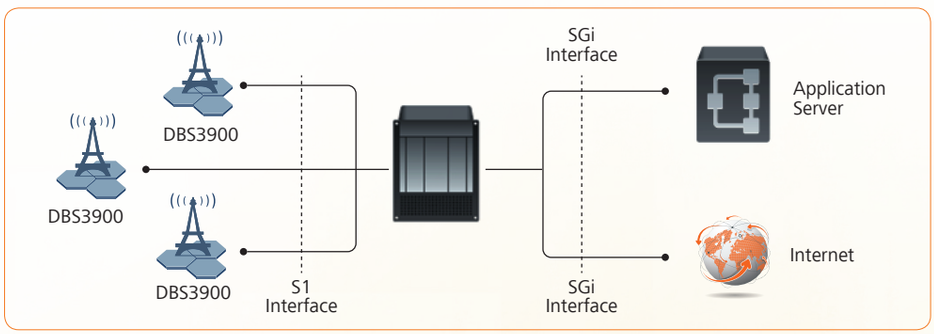
eCNS600

eLTE Core Network for Large Networks

The eCNS600 offers high reliability and performance for eLTE broadband access and supports a maximum of 40 Gbit/s data transfer rate for simultaneously transmitting voice, video, and data. It is ideal for dedicated, large-sized enterprise networks that rely on integration, reliability, and interoperability.



Highlights

High Performance

- Supports up to 40 Gbit/s throughput and up to 200,000 subscribers to meet current and future needs for services such as voice, dispatch command, operational data, video, and other broadband services.
- The Quality of Service (QoS) mechanism in the eCNS600 can guarantee critical data transmission in any situation

High Integration

- Integrates 5 core network NEs into a 14U high subrack, including Mobility Management Entity (MME), Serving Gateway (SGW), Packet Data Network Gateway (PGW), and Home Subscriber Server (HSS), part of Policy and Charging Rules Function(PCRF), which are typically found in the public LTE core network

High Reliability

- Hardware:
  1+1 board backup and eCNS geographic redundancy
- Software:
  Overload control, fault prevention, automatic data backup, and operational security management
  These reliability mechanisms ensure an eLTE core network availability of 99.999%.

Features & Benefits

- **Integrated Subscriber Data Management**
- **Reliability**
  eCNS Geographic Redundancy
  1+1 eCNS Board Backup
- **9 Level Quality of Service (QoS) Control**
- **Security Parameter Index (SPI) Based QoS Profile Control**
- **Traffic Control**
- **Security Management**
  NAS Encryption and Integrity Protection (AES)
  NAS Encryption and Integrity Protection (SNOW3G)
  Operation and Maintenance (O&M) SSL
- **Bidirectional Forwarding Detection (BFD)**
- **Offline Charging**
- **Roaming**
- **Interoperation with Public Network**
- **Routing Behind MS**

Specifications

Performance Specifications	
Maximum subscribers	200,000
Maximum eNodeBs	1,500
Maximum throughput	40 Gbit/s

Physical Specifications	
Subrack dimensions (H x W x D)	622.3 mm x 442 mm x 437 mm
Subrack weight	< 92 kg (Full configuration)
Power supply	–40V~ –57V DC
Power consumption for a single board configuration of one subrack	2200 W (maximum) / 600 W (typical)
Working temperature	Long term: 0℃ to +45℃ Short term: -5℃ to 0℃ , +45℃ to +55℃
Storage temperature	-40°C to 70°C
Relative operating humidity	Long term: 5% RH to 85% RH Short term: 85% RH to 95% RH
System availability	≥ 99.999%
Mean time between failures (MTBF)	≥ 300,000 hours
Mean time to repair (MTTR)	≤ 1 hour