

COMM-CO
Communication today and tomorrow



Huawei GSM-R Products

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Base Station Sub-System



BTS3900



BTS3900A

BTS3900 / BTS3900A

BTS3900 is a indoor macro BTS and BTS3900A is for outdoor. This base station features

greater transmit power, higher reliability and LTE Evolution.

- » Frequency band:
 - E-GSM: 880-915 (35MHz)
 - ER-GSM: 873-880 (7 MHz)
- » Transmitting Diversity, 4-way Receiving Diversity
- » Top power:
 - ER frequency band: 60W
 - E frequency band: 80w
- » Static receiving sensitivity: -112.5 dBm
- » Outdoor BTS3900A is of stronger acclimatization: -40°C ~ +50°C, IP55 protection level

DBS3900

The DBS3900 GSM features a distributed architecture and consists of two basic function modules: BBU and RRU. These basic modules can be flexibly configured to meet requirements for different capacities and in different application scenarios for GSM network.

RRU

- » Frequency 900M EGSM/ 900M RGSM
- » Sensitivity: -113dBm/ 1-Way Receiver & -116 dBm/ 2-Way Receiver
- » Weight: 23 KG (with the housing)
- » TOC: 30 W per TRX
- » Protection level: IP65
- » Temperature: -40°C ~ +50°C (without solar radiation)

BBU

- » Weight: 7 to 12 KG
- » Capacity: 36 TRXs
- » Power consumption: 50 W
- » Protection level: IP20
- » Temperature: -20°C to +50°C



BSC6000

BSC6000 is responsible for radio resource management, base station management and power control.

- » Max equivalent BHCA: 5,900 k
- » Traffic volume: 24,000
- » Number of TRXs: 2,048
- » Number of configured PDCHs: 30,720
- » Gb interface throughput: 1,536 Mbit/s
- » Power consumption: ≤ 3200W

Network Sub-System



eCNS300

The eCNS300 deploys all CN NEs of GSM-R in single cabinet, including MSC Server,UMG and HLR based on the unified ATCA platform. Furthermore eCNS300 is evolitional for LTE.

The typical configuration is MSC Server, eHLR, and eUMG sharing one subrack. specification is:

- » Maximum subscribers:50000
- » System Reliability: ≥ 99.999%
- » Weight: ≤ 200KG
- » Power Consumption: ≤ 2200W(housing MSC server + eHLR + eUMG)



USN9810

Huawei USN9810 is a unified service node that can be deployed in Evolved Packet Core (EPC) systems.

- » ATCA platform
- » Maximum subscribers:12,000,000
- » Maximum bearers: 24,000,000
- » Number of eNodeBs: 50000
- » Number of S-GWs and P-GWs: 4096
- » Weight: < 400 KG (with full configuration)



UGW9811

The Huawei-proprietary UGW9811 (UGW9811) is a unified packet gateway that can be deployed in Evolved Packet Core (EPC) systems, it provides the functionalities of serving gateway (S-GW), PDN gateway (P-GW).

- » Maximum bearers: 5,000,000 (SPUs in active/standby mode)
- » Maximum data throughput: 120 Gbit/s (SPUs in active/standby mode)
- » Maximum APNs: 3,000
- » Maximum GRE tunnels: 4,000
- » Maximum eNodeBs: 100,000
- » Weight: < 380 KG (with full configuration)
- » Dimensions: (H)2200 mm x (W)600 mm x (D)800 mm

Operation Support System



ATAE



PC Server

iManager U2000

The iManager U2000 centrally manages Huawei mobile network elements (NEs), including BSS and NSS. The U2000 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 various optional functions.