

SatSite Model 142

The SatSite Model 142 mobile network base station can operate as a complete 4G LTE eNodeB or as a 2.5G GSM/GPRS BTS+BSC.



Features and benefits

- Software configurable as 4G LTE or 2.5G GSM/GPRS.
- Software upgradable to future LTE and LTE-A Releases.
- Can be used with any IP backhaul.
- Local break-out of GPRS and LTE IP traffic for edge computing.
- Local media routing for GSM speech calls.
- GSM backhaul loading as little as 8 kbit/sec/call.
- Can be powered from solar panels in most parts of the world.
- Linux-based OS means lower management costs.

LTE specifications

Radio Interface	LTE Release 11, FDD, 64-QAM; upgradable to 256-QAM with Release 12
Available bands	1, 2, 3, 5, 9, 20, others on request
Operating Bandwidth	1.4, 2, 5, 10, 15, 20 MHz
MAC Specs	localized or distributed VRBs, proportional fairness scheduling
Maximum Connected UEs	no fixed limit
Antenna Configuration	1x1 (SISO)
Network interface	IPv4; IPv6
Network protocols	S1-AP; GTP; X2
Output Power	20 W

GSM specifications

Radio Interface	phase 2+ GSM, software configurable for 1- 2- or 4-TRX
Operating bands	GSM850 EGSM900 DCS1800 PCS1900
Supported services	Speech (GSM-FR) SMS USSD GPRS
Call capacity	7 FR calls/TRX
GPRS	Multislot classes 1-9, CS-1 & CS-4, NMO 1-3

Network interface IPv4; IPv6

Network protocols SIP/RTP; GTP

Receive sensitivity < -108 dBm

Output Power 20 W

Multi-TRX support up to 2 W/TRX in 2- or 4-TRX mode

Hardware specifications

Multi-TRX support up to 2 W/TRX in 2- or 4-TRX mode

Power supply -48 VDC internally regulated, 120 W max, 80 W typical

Network interface 100/1000 Ethernet, 2 x RJ-45 connectors

Enclosure 50cm x 21cm x 11cm

Weight 8.5kg

Environmental IP-67; -20°C to +50°C operating

Operation & management specifications

Management interfaces SSH console, CLI, Web GUI

Alarms SNMP

Performance Measurements via FTP, as per 3GPP 32.425

Operating system Linux, RPM-based

About us

Legba, Inc. provides innovative infrastructure for mobile operators.

SS7ware Inc. provides 2.5G/4G mobile networks. The company is a subsidiary of Null Team, the creators of Yate.

Phone: +1-925-526-4501

Email: office@ss7ware.com

Website: www.yatebts.com