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, and is available in most GSM and/or LTE bands.

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.

Hardware

Dimensions	70 x 20 x 10cm
Weight	15 kg
Power Consumption	-48 VCD, 2 A typical, 3 A max includes 120/220 VAC power adapter
Environmental	-20 - +50 C, IP-65 standard other options available on request

NOTE: These values are rounded to nearest units. For more exact values, please contact us.

Radio Performance

Bands Available	GSM 850, E-GSM 900, DCS 1800, PCS 1900 All standalone LTE bands (TDD and FDD) up to 2.6 GHz
GSM Multi-TRX Configurations	1, 2, or 4
Output Power	Up to 40dBm (10 W) for LTE or 43dBm (20 W) GSM 1-TRX operation Up to 33dBm (2 W) per TRX for 2-TRX or 4-TRX operation
Receiver Sensitivity	-106 dBm (on GSM 271 kHz bandwidth)
Internal Clock	Stratum 3 OCXO, 25 ppb over 6 months long-term automatic calibration from NTP

LTE Features

MCS Modes	up to 64-QAM DL, up to 16-QAM UL
Bandwidths	1.5, 3, 5, 10, 15, or 20 MHz
Scheduler	proportional fairness or randomized
Maximum Advertised PLMNs	12
Maximum Attached UEs	No fixed limit, approx 100, depending on activity

GSM Features

GPRS Specifications	Multislot classes 1-9 CS1, CS4 NMO 1-3
Speech Codecs	GSM-FR
Channel Combinations	I, IV, V, VII

Network and Management Interfaces

GSM CS Interfaces	SIP call signaling (RFC3261) SIP MESSAGE method for SMS, ASCII or 3GPP PDU encoding RTP traffic (RFC3550) sideband DTMF (RFC2833)
GSM PS Interfaces	GTP-U with internal SGSN (“data roaming mode”) local IP breakout (“NiPC mode”)
LTE Interfaces	S1 (S1AP on S1-C and GTP-U on S1-U) IPv4 or IPv6
Management Interfaces	web UI telnet UI JSON over HTTP Zabbix templates KPI-related measurements as per 3GPP 32.435

About Us

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