

GSM LITECELL 1.5 PRODUCT SHEET



BRIDGING THE DIGITAL DIVIDE ONE CONNECTION AT A TIME

GSM LITECELL 1.5



THE WORLD'S MOST AFFORDABLE, LOWEST POWER CONSUMPTION, AND EASIEST TO DEPLOY GSM BASESTATION.

The GSM LiteCell 1.5 is uncontestably the world's most affordable, lowest power consumption, and easiest to deploy GSM basestation. Specifically designed to reach the next billion mobile subscribers, the GSM LiteCell opens a whole new world of possibilities for connecting low density, low income, and remote populations.

REACHING FARTHER

So far, remote and sparsely populated locations could not benefit from mobile coverage, as projectedrevenues from the smaller subscriber bases could not justify the deployment and operation costs inherent to traditional equipment. This reality now belongs to the past, as the GSM LiteCell makes it possible to build sites at very low cost, and where only minimal or no infrastructure at all exists. Operators now have the possibility to extend their network coverage andreach these subscribers in a viable way.

SIMPLIFIED DEPLOYMENTS

The GSM LiteCell is a hand-carried, tower-mounted basestation. It does not require any machinery to install, nor any kind of shelter to protect it. Antennas connect directly to the unit; no need for costly and cumbersome external RF components. Its all-IPinterface makes the GSM LiteCell easy to connectto any IP-based terrestrial or satellite backhaul. The basestation's ultra-low power consumption minimizesCAPEX associated to solar panels and batteries., orOPEX in the case of diesel-powered sites.

OPTIMIZED FOR SATELLITE

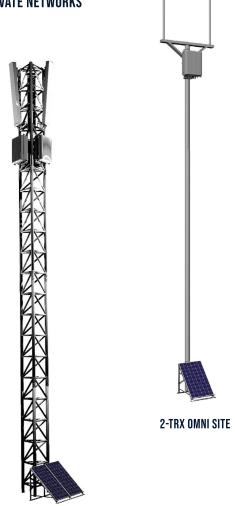
When combined with NuRAN's NuBSC and LiteSat, the LiteCell achieves industry-leading bandwidth optimization, thereby keeping the OPEX of satellitebackhauled sites to an absolute minimum.

PROVEN RELIABILITY

The LiteCell 1.5 is NuRAN's fourth generation of GSM basestation. It builds on a track record of highreliability, with thousands of units deployed in all parts of the world, enduring the harshest conditions.

APPLICATIONS

- RURAL COVERAGE
- ROADSIDE COVERAGE
- LOW DENSITY VILLAGES
- REMOTE SITES
- DEVELOPING COUNTRIES
- PRIVATE NETWORKS



2/2/2 SECTORIZED SITE

SPECIFICATIONS

Analog

Operating frequencies:

BAND	RECEPTION	TRANSMISSION
850	824-850 MHz	869-895 MHz
900	880-915 MHz	925-960 MHz
1800	1710-1785 MHz	1805-1880 MHz

- · Maximum output power:
 - 2X10WATTS
- Output level setting:
 - 1 DB STEPS
- Clock accuracy:
 - < 0.05 PPM
- Sensitivity:
 - -114 DBM, 2% BER (WITH DIVERSITY)
- · Maximum cell radius:
 - 2 KM

Services

- Speech format:
 - · AMR, HR, FR, EFR
- · Data services:
 - GPRS CS-1 TO CS-4, MULTISLOT
 - EGPRS MCS-1 TO MCS-9, MULTISLOT
- Encryption:
 - A5/0, A5/1, A5/2, & A5/3
- Maximum capacity:

CURR.CALLS	FRLANG (2% GOS)
30	21,9
60	43,8
90	65,7
	30 60

Logical interface

- ABIS OVER IP
- GB



Physical interfaces

- Antennae:
 - N-TYPE
- GPS antenna:
 - SMA
- Traffic and control:
 - ETHERNET RJ45

Electrical

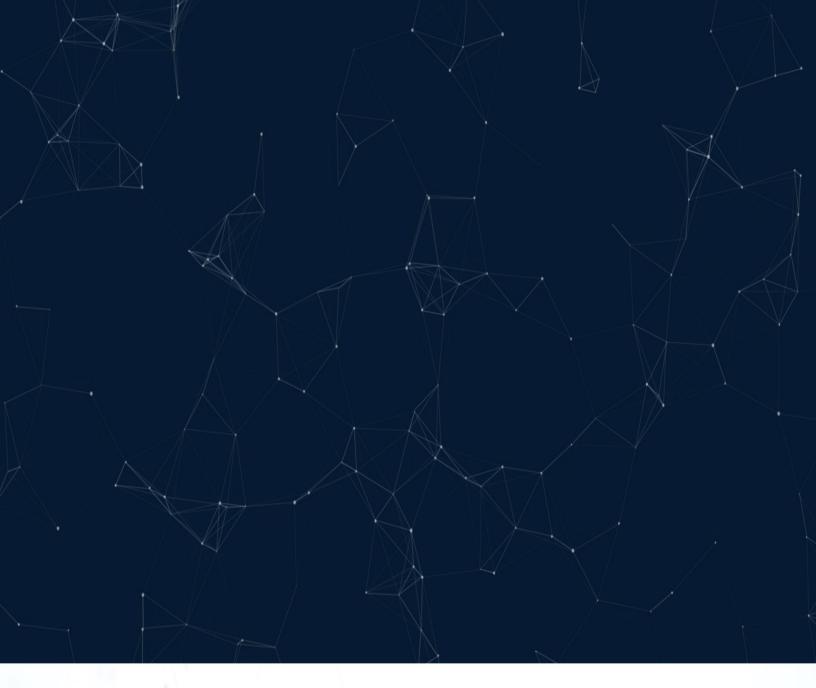
- Power consumption (24-hour average):
 - 46 WATTS (2X5W)
 - 56 WATTS (2X10W)
- Input voltage:
 - 24 VDC NOMINAL
 - 19-30 VDC SUPPORTED

Mechanical

- · Dimensions:
 - 344 MM × 230 MM × 132 MM
- · Weight:
 - 9.5 KG
- · Mounting options:
 - POLE, WALL, TOWER

Environmental

- Operating temperature:
 - -20 °C TO +55 °C, PLUS SOLAR LOADING
- Storage temperature:
 - -40 °C TO +70 °C
- Rating:
 - IP66
- · Cooling:
 - PASSIVE



NuRAN Wireless products are constantly being improved; therefore, NuRAN Wireless reserves itself the right to modify the information herein at any time and without notice.

