



OC-2G

PRODUCT SHEET



BRIDGING THE DIGITAL DIVIDE ONE CONNECTION AT A TIME

OC- 2G



REDEFINING LOW-COST MOBILE INFRASTRUCTURE, ONCE AGAIN.

AS PART OF THE TIP INITIATIVE, NURAN PARTICIPATED IN THE OPEN CELLULAR (OC) 2G PROJECT, WHICH FOCUSES ON DELIVERING 2G SERVICES TO "HARD TO REACH" REGIONS. THE OC-2G PRODUCT HAS BEEN DESIGNED TO COVER POPULATIONS LIVING IN DEEP RURAL AREAS AFFORDING A COVERAGE RANGE OF UP TO 2 KM IN A NON-INVASIVE WAY THROUGH ITS SMALL INFRASTRUCTURE FOOTPRINT. IT IS SUITABLE FOR POPULATIONS RANGING FROM 300 TO 2000 INHABITANTS. THE OC-2G PRODUCT IS ENERGY EFFICIENT AND OPERATES ON RENEWAL ENERGY SOURCES, CONSUMING ONLY 14 WATTS. IT IS THE FIRST STEP TO PROVIDING COMMUNICATION SERVICES TO VERY REMOTE AREAS.



TELECOM INFRA PROJECT



OPENCELLULAR



TOWER: 10 m, 12m

BTS: OC2G

1 TRX @ 630 MW

ANTENNA: 10 dBi Omni

Exclusively solar powered

VSAT BACKHAUL

24 HOURS AVERAGE POWER CONSUMPTION: 64W

COVERAGE RADIUS: Up to 2 km

POPULATIONS COVERED:

Approx.2500 inhabitants



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:

- **28 DBM**

- Output level setting:

- **1 DB STEPS**

- Clock accuracy:

- **< 0.05 PPM**

- Sensitivity:

- **-109 DBM, 2% BER**

- 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:

CONFIG.	CURR.CALLS	ERLANG
0C-2G	14	8,2

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):

- **14 WATTS (@ 28 DBM OUTPUT)**

- Input voltage:

- **24 VDC NOMINAL**
- **19-30 VDC SUPPORTED**

Mechanical

- Dimensions:

- **220 MM × 280 MM × 93 MM**

- Weight:

- **6 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**



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