





**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





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:

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## 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

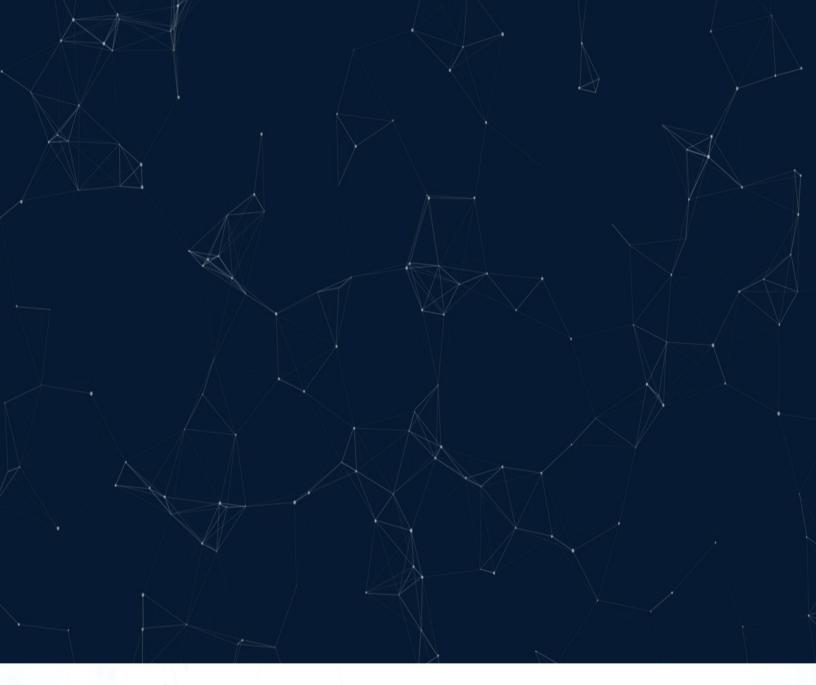
## **Mechanical**

- 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





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.



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