NB-IoT Tester

Designed for testing NB-IoT and Cat-M Networks

	Constant of the local division of the local	
	RSRP-80dBm Northead	
	SNR 18dB Max 21de Hin 15de	
	CID:170534470 PCI:188	
	MENU DOWN	
	POWER ON/OFF	
	ON/OFF	
	NB-IoT Tester	
AP .		
	B-IOT	
ARE AL		

🛞 NB-lot

- * Measures signal strength and signal quality
- * Presents digital signals like; RSSI, RSRP, RSRQ and SNR
- * Easy readout for fast and effective installations
- * Built in SIM-card holder
- * Timer-recording, showing min/max signal level
- * Input for external antenna
- * Very easy to handle and operate
- * Built in rechargeable battery pack



NB-IoT Tester

Designed for testing NB-IoT and Cat-M Networks

Internet of Things (IoT) is the new technology, exploding in terms of connected devices globally. But how are these IoT devices getting physically connected to the Internet ?

One way, which is becoming standard within Europe (EU) is via NB IoT (Narrow Band IoT)/LTE Cat-M. Telecom operators like Deutsche Telecom, Vodafone, Proximus and many others are leading the way and are setting up new networks to comply with this new standard. IoT devices (like electricity-, gas- and water- meters) which are setup with NB IoT/Cat-M can be easily connected, via the Narrow Band on the 4G network, to Internet. The connected devices will then automatically report and send measured data to the assigned operators. - There is one small obstacle though and that regards the signal strength needed to do this connection. In most cases this is not a problem. Signal coverage is good enough over most areas. But many of these devices will be placed in cellars or deep within huge buildings. Others will be quite far away from the main transmitters and at the limit of their coverage. Such jobs will require a signal-meter for doing a less time consuming and fully operational installation.

The NB IoT Tester has been designed for this purpose and it is fully skilled for testing and analyzing the digital signal levels in the air. Signal strength is measured in dBm. The presented Digital- and quality- levels are; RSSI, RSRP, RSRQ and SNR. The unit displays the real time values in numerical form but also in the shape of thermometer scales. These are all easily readout with low values in red and acceptable values in green. The NB IoT Tester is easy to learn and operate. It is handled with just a few buttons and the measured results are being presented on a Color LCD.

The unit can be setup for timer recordings which is very valuable when having to measure in small/closed compartments (which could be for ex. steel capsulated) or for problem solving (for ex. knowing that there's a drop of signal level at nighttime). The NB IoT Tester will record and present max and min values for the setup test period.

The NB IoT Tester has a built in antenna similar to the one used in the various devices made to be connected to NB IoT/Cat-M. This make the NB IoT Tester very reliable and accurate when judging if a site has good enough signal level (or not) for installing a new device. The NB IoT Tester also has a separate input for connecting a stand-alone antenna (larger antenna). This in order to setup and make fully operational installations on sites where the signal level is too low for using built in, internal, antennas.

The unit is powered via the internal Li-ion battery pack (rechargeable). This will give the unit an operational time of more than 12 hours when fully charged. It will take about 10 hours to fully charge the meter when being drained. The NB IoT Tester is charged with the enclosed mini-USB charger.

The unit is made in a hard plastic shell, placed in a rubber boot for shock protection. The design is very solid and has been used earlier for other purposes. It's reliable and well proven.



3GPP Release

Downlink Peak Rate Uplink Peak Rate IoT bands

GSM bands Signal level readout Digital readout GPS Latency Latency test Receive Bandwidth Transmit Power Built in SIM-card reader Input impedance

Digital readout

Memory

DisplayColor LCBatteryBuilt in, rBattery capacity3200mAtPower consumptionMax 300mOperational fully charged10 hoursCharging time (drained)6 hoursPowersupply/chargerInput: 22

Weight Size

Accessories:

Release 13 (2G/3G/4G LTE Cat NB1, NB2, LTE Cat-M1, GPRS, EDGE) Up to 588Kbit/s Up to 1119Kbit/s B1/ B2/ B3/ B4/ B5/ B8/ B12/ B13/ B18/ B19/ B20/ B25/ B26/ B28 and B39 for Cat-M. 850/900/1800/1900MHz -51dBm to -135dBm RSSI, RSRP, RSRQ and SNR GPS/GLONASS/BDS/Galileo/QZSS 0s-10s Yes 180 kHz 23 dBm Yes SMA connector, 50 ohm

RSSI, RSRP, RSRQ and SNR showing strength, quality and min/max hold values:

SD-card with built in SD-cardreader Firmware upgrade via micro-USB connector.

Color LCD 320x160 pixels. Built in, rechargeable batterypack 3200mAh. Max 300mA peaks. 10 hours 6 hours Input: 220V, output 5V, 2 amp, micro-USB 0.3kg 185x115x50mm.

Powersupply Rubber-case Antenna Owners manual





Smart Scandinavian Box AB Ostmastargrand 12 SE-120 40 Stockholm, Sweden

Phone: + 46 (0)8 5333 40 70 Fax: + 46 (0)8 5333 40 71 Web: www.easysplicer.com email: info@easysplicer.com