etmpacific

ETM 770-IoT

LTE-M & NB-IoT SIGNAL ANALYSER TOOL

Measure, Display & Log CAT-M1, NB1/NB2 Signal Strength & Signal Quality Parameters on 4G LTE Networks

KEY PARAMETERS
Display & Log RSRP, RSRQ, RSSI, GPS and more

CLOUD CONNECTIVITY
Send data to ETM Cloud platform or any server

USER FRIENDLY
Portable, Battery Powered & Compact

FIELD SURVEY TOOL
Optimize antenna, carrier & band selection

Cat-M1 LTE-M **NB1/NB2** NB-IoT **2G** GSM

LTE-M
NB-IoT

Measured Parameters — Logged Data — **CellNET** Cloud Platform — Device Interface

OVERVIEW:

The ETM 770-IoT is an easy-to-use handheld, cellular network survey tool, designed for technicians & engineers looking to deploy devices that will use CAT-M1 & NB1/2 LPWAN services on 4G LTE networks and need to ensure or prove there is reliable connectivity at a specific location.

Displays all available Frequency Bands, RSRP, RSRQ, RSSI, GPS Location, Cell ID, Neighbouring cells, Ping test data, and many other parameters. Devices also can send data to ETM's CellNET cloud platform or to other 3rd party platforms/servers.

TYPICAL APPLICATIONS:

- Smart Electricity, Water & Gas Meter Installations
- Optimizing Antenna selection
- Site Survey Tool with cloud Reporting
- Compare Carriers Coverage

FEATURES

- Low/Medium/High Signal Indication
- Protective Cover
- Ping Test to Private or Public IP Address
- Global Frequency Band Coverage
- Test data connection to any server
- Advanced measurement's menu
- Customizable Menu
- Lock Carrier & Band

KEY MEASUREMENT PARAMETERS

			Poor	Excellent
RSRP (dBm)	Reference Signal Received Power	The power of the reference signal received from the cell tower	< - 112	> - 84
RSRQ (dB)	Reference Signal Received Quality	The quality of the reference signal received from the cell tower	< - 11	> - 5
SINR (dB)	Signal to Interference plus Noise Ratio	Measures the signal-to-interference-plus-noise ratio	< +7	> +12.5
RSSI (dBm)	Received Signal Strength Indicator	Measures how well your device can receive a signal from the cell tower	<- 85	> - 65

SPECIFICATIONS:

Model	ETM770-IoT
Part.no	ETM22000M06
Internal Module	Quectel BG9X
Cellular	LTE Cat M1, Cat NB1/NB2*, 2G
GNSS	GPS, Glonass, BeiDou/Compass, Galileo, QZSS
Frequency Bands	**LTE TDD (Cat M1):** B1/B2/B3/B4/B5/B8/B12/B13/B18/ B19/B20/ B26/B28/B39
	LTE TDD (Cat NB1/NB2): B1/B2/B3/B4/B5/B8/B12
	GSM/GPRS (2G): 850/900/1800/1900 MHz
Receiver Sensitivity	-107 dBm (LTE-M), -113 dBm (NB-IoT)
Dimensions and Weight	115 x 69 x 28 mm, 130 g
Battery	3.7 V /3000 mAHr, Rechargeable
Battery Life	48 Hr continuous use
Operating temp.	-20°C to +55°C
Interfaces	Push-Push SIM Card Holder for Full Size (2FF), SMA Connector, Mini USB Programming & Recharging (5Vdc)

* - Check with your carrier

69 mm

115 mm

28 mm

Mini USB · Primary Antenna · AUX Antenna
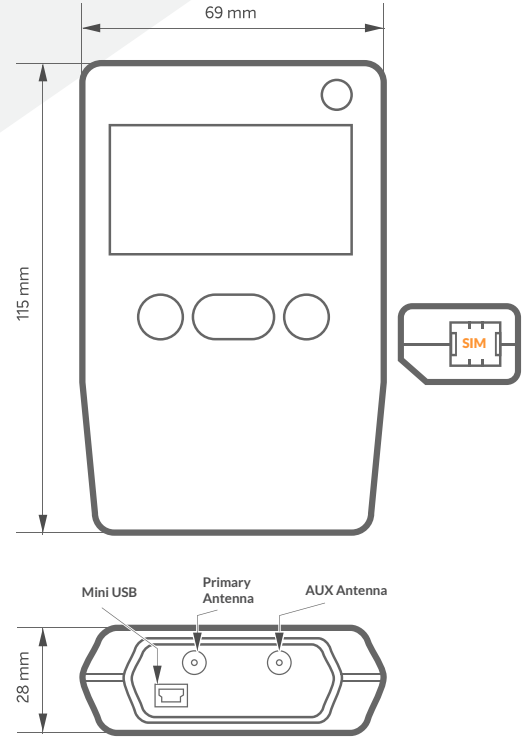
770 INCLUDED ITEMS

Rugged carry case with: AC Plug Pack, USB Cable, Car Charger, 0dB Antenna, FME Adaptor and Protective Silicone Cover to provide enhanced mechanical protection.

MORE ABOUT CELLNET:

CellNET is ETM's cloud-based application specifically for logging & display of data captured from one or more 770's and device fleet management. CellNET can be customized to meet specific customer user interface requirements and can be deployed on private server instances. Logged data can be downloaded in various formats with option to link with 3rd Party platforms via API.
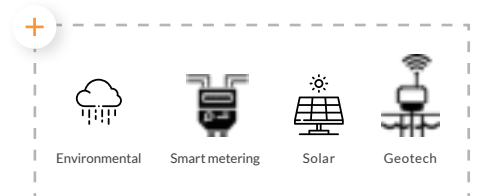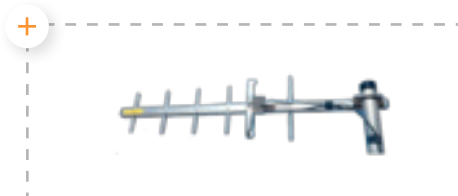
IoT PRODUCT RANGE:

Delta Blue · **Delta Black**
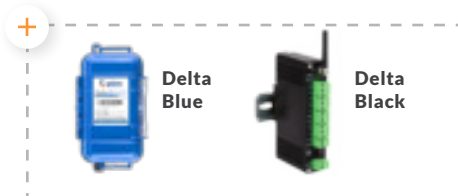
Data Loggers

Modems & Routers

Environmental · Smart metering · Solar · Geotech

Integrated Solutions

Antennas

Cellular Signal Boosters

SIM Data Plans