

Welcome to your ETM Product

Quick Start Guide



Get started: This guide helps with initial product setup. Need more? Find additional product information by scanning the QR code.



Support: For support, please visit www.etmiot.com or e-mail support@sigicom.com. If urgent, please call us using the number below.

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INTRODUCTION

770-PRO is a handheld signal analyzer for cellular 2G/3G/4G Cat M1/Cat NB2 network measurements.

Common applications include:

- Determine the best operator
- Check signal strength & coverage
- Send measured data to server
- Check working IP connection
- Select the best antenna
- Check parameters like Lac, cell

FEATURES

- 2G/3G/4G or 2G/LTE Cat M1/LTE Cat NB2 coverage
- Monochrome OLED display
- Rechargeable battery
- Mini USB for programming and charging
- Includes antenna, hard case and charger

NETWORK COVERAGE

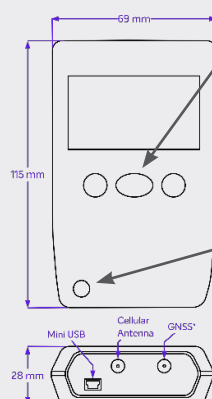
Model	770-PRO
Part.no	20595
Module	Cinterion PLS63-W + Cinterion TX62
GNSS	GPS/GLONASS/BeiDou/Galileo
2G Bands	850/900/1800/1900MHz
3G Bands	1, 2, 3, 4, 5, 6, 8, 9, 19
LTE 4G Bands	1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 26, 28, 66
Cat M1 Bands	38, 40, 41
Cat NB2 Bands	1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 27, 28, 66, 71, 85

ACCESSORIES



WANT A VIDEO USER GUIDE?

There is an ETM770 user guide available on Youtube, use the link or scan the QR code to watch:
<https://www.youtube.com/watch?v=kGrbHnXsos&t=117s>



Buttons/Navigation

- OK Button** Action button/Forward navigation
- Arrow Up** Used for navigation Backwards button
- Arrow Down** Used for Navigation

On/Off/Restart

- Turn off** Hold power button (3s)
- Restart Device** Option 1: Hold Arrow Up & Arrow Down (5s)
Option 2: Navigate System > Restart Device

Getting Started

Important!

The SIM card must have NO pin code

Using 770-PRO

1. SCANNING A SIGNAL

1. Choose the radio band/bands that you wish to scan.



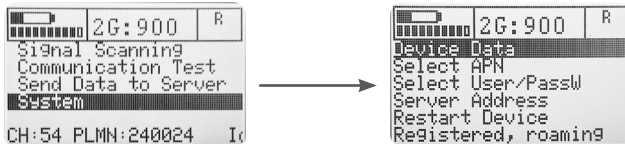
2. Search and select a network operator that is using one or more of your selected radio bands.



3. When radio bands and network operator is selected, you can proceed to scan a signal by navigating to "Scan Signal".



3. SYSTEM



Device Data

Page 1: SIM card number, software version, hardware number, IMEI number
Page 2: Date/time, internal temperature, supply voltage, battery voltage

Select APN

Select which APN you wish to use for uploading scanned data to a server

Select User/PassW

Some APNs require username/password. Add and select the right user in this tab.

Server Address

Displays the added server addresses and ports

Restart Device

Restart the device without using the buttons.

4. EWO (ETM WEB OFFICE)



- Log in using the provided login credentials
- Manage your account, units and organisation in the settings.
- Under settings > configuration choose which data you want to be presented
- Enjoy your ETM product

To access the ETM IoT Cloud Dashboard, please visit the website or scan the QR Code.

www.etmweboffice.com/EWO/pages/login.jsp



2. ADDITIONAL FUNCTIONS

SEND DATA TO SERVER

1. Navigate main menu > Send Data to Server > Send Last Scan
2. To change the IP-Address for sending, please see "4. Configuring the ETM770"

COMMUNICATION TEST

1. Navigate main menu > Communication Test > PING "IP-Address"
2. This will send three tests to the selected server. It shows "success" or "fail". Ping round trip time in milliseconds.
3. To change the PING address, please see "4. Configuring 770-PRO"

SIGNAL ANALYSIS EXPLANATION

RSSI (dBm)	Received Signal Strength Indicator
RSRP (dBm)	Reference Signal Received Power
RSRQ (dB)	Reference Signal Received Quality
SINR (dB)	Signal to Interference plus Noise Ratio

4. CONFIGURING 770-PRO

When it comes to configuring the 770-PRO there are two options:

1. Using the *Configuration Tool* to configure with a computer via the provided USB Cable. Please see *770-PRO User Guide* available on our website etmiot.com
2. Configuring the unit wirelessly using the SMS commands:

SMS COMMANDS

An easy way to configure the ETM770 unit is by using SMS Commands. Simply send an SMS with the following syntaxes to the device's cellular number.

Change PING address	ET-IP3="IP Address":"Port"
Example	ET-IP3=8.8.8.8:80 (Google's server)
Change server address	ET-IP1="IP Address":"Port"
Example	ET-IP1=54.77.219.177:7162 (EWO server)
Change APN list	ETSAPN="List position", "APN name"
Example	ETSAPN=1, m2m.tele2.com
Change User/password	ETSUP="List position", "Username", "Password"
Example	ETSUP=1,username1,password1

ETM PRODUCTS



DeltaBlue
Outdoor and battery-powered remote monitoring, alarming & logging solution



DeltaBlack
Industrial cellular remote monitoring, alarming & logging solution



ETM-Purple
Intelligent cellular 2G/3G/4G with "last gasp"



770-PRO
Cellular Network Monitoring tool Cat M1/Cat NB2 2G/3G/4G