

# MGRID

INDUSTRIAL MOBILITY  
PLATFORM

## MGRID-600

ANDROID 13

5G NR

IP67

6000 MAH

OTG PROBE

Portable Hand Held Unit (HHU) engineered for secure, rapid smart meter data collection. Powered by Mahyan Fahir Electric and developed by UGX.AI.

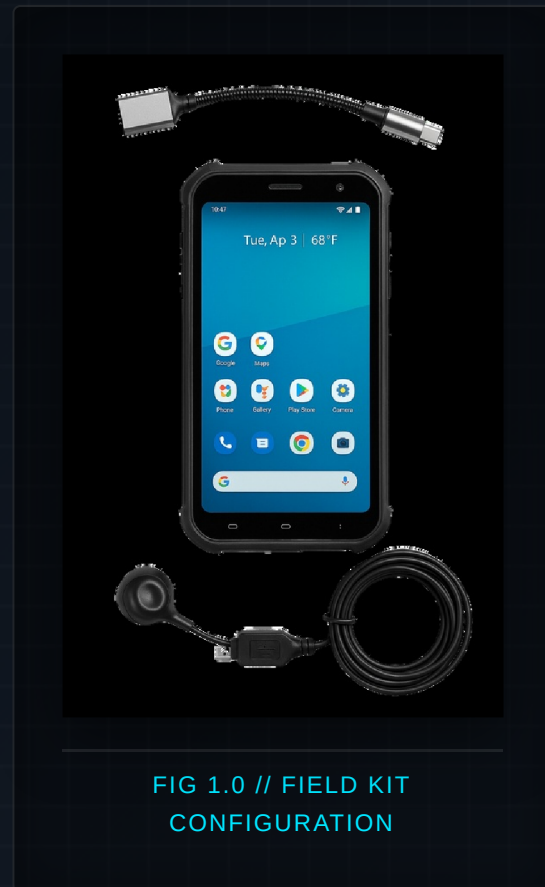


FIG 1.0 // FIELD KIT  
CONFIGURATION

## SYS. OVERVIEW

The MGRID-600 is designed to read energy data from supported smart meters using an optical probe connected through a secure OTG interface. It enables field engineers and energy technicians to collect meter data quickly, import and export files, store readings locally, export directly to Excel, and upload critical information to a remote server.

Built on the proven Mobility Edge platform, the MGRID-600 offers a scalable enterprise hardware and software foundation with robust security, high reliability, peak performance, and simplified lifecycle management. This architecture significantly accelerates provisioning, certification, and deployment while lowering the long-term total cost of ownership (TCO).

## KEY CAPABILITIES & BENEFITS

### POWER SYSTEMS

HIGH-CAPACITY BATTERY

### INTERFACE

PREMIUM HD DISPLAY

6000 mAh battery combined with a low-power architecture and up to 18 W Type-C fast charging for uninterrupted extended field operations.

6.1-inch HD multi-point capacitive touchscreen reinforced with Gorilla Glass for exceptional scratch resistance and superior outdoor visibility.

#### NETWORKING

### HIGH-SPEED CONNECTIVITY

LTE-Advanced and carrier aggregation for ultra-fast mobile connectivity up to 300 Mbps, ensuring reliable data synchronization anywhere.

#### ARCHITECTURE

### FUTURE-READY PLATFORM

Delivers real-time connectivity, advanced data capture, and future-proof investment protection built natively on the Mobility Edge platform.

#### SENSORS

### ADVANCED DATA CAPTURE

Integrated advanced 2D imager for rapid linear and 2D barcode capture, complete with an optional scan handle to minimize user fatigue.

#### DURABILITY

### RUGGED FIELD DESIGN

Lightweight, pocketable form factor boasting IP65/IP67 environmental protection, 1.5 m drop resistance, and tested for 1,000 tumbles from 1.0 m.

## TECHNICAL ARCHITECTURE

### SYSTEM CORE

PROCESSOR	2.4 GHz Octa-Core 64-bit Processor
OPERATING SYSTEM	Android 13
MEMORY	4 GB RAM / 64 GB ROM

### PHYSICAL SPECIFICATIONS

DIMENSIONS & WEIGHT	165 × 78.5 × 15.5 mm   287 g (including battery)
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<b>DISPLAY</b>	6.1 in, 720 × 1560 resolution, Gorilla Glass screen
<b>KEYPAD &amp; NOTIFICATIONS</b>	5 keys (including side keys)   Vibrator, speaker, multi-color LEDs
<b>BATTERY &amp; CHARGING</b>	3.85 V, 6000 mAh   18 W fast charging supported
<b>CAMERAS</b>	Front: 8 MP, fixed focus   Rear: 13 MP, autofocus, LED flash
<b>INTERFACES &amp; SLOTS</b>	Type-C 2.0 OTG, Type-C earphone   Nano SIM + Nano SIM
<b>INTEGRATED SENSORS</b>	Light & proximity sensor, accelerometer, magnetic sensor, gyroscope
<b>LOCATION SERVICES</b>	A-GPS, GLONASS, BeiDou, Galileo

## CONNECTIVITY & DATA CAPTURE

### SYMBOLOLOGIES & OPTICS

<b>SUPPORTED BARCODES</b>	2D / linear barcode families including Aztec, Composite, Code 16K, GS1-128 / UCC-EAN-128, AIM-128, EAN-8, EAN-13, UPC-A, ITF, ITF-6, ITF-14, Matrix 2 of 5, Industrial 2 of 5, Standard 2 of 5, Code 39, ISSN, ISBN, Codabar, Code 93, Code 11, Plessey, MSI Plessey, RSS
<b>TYPICAL DEPTH OF FIELD</b>	EAN-13: 70–600 mm (13 mil) Code 39: 120–280 mm (5 mil) PDF417: 110–230 mm (6.7 mil) Data Matrix: 110–260 mm (10 mil) QR Code: 55–400 mm (15 mil)

### WIRELESS INFRASTRUCTURE

<b>RFID / NFC</b>	13.56 MHz, ISO14443 A/B, ISO15693, ISO18000-3, MIFARE, FeliCa RF, Kovio, NFC Forum Type 1-4 tags
<b>WLAN &amp; WPAN</b>	802.11 a/b/g/n/ac/ax, dual-band 2.4 GHz and 5 GHz   Bluetooth 5.2

<b>WWAN 2G / 3G</b>	2G: GSM B2/B3/B5/B8   3G: WCDMA B1/B2/B5/B8
<b>WWAN 4G LTE</b>	TDD-LTE: B34/B38/B39/B40/B41   FDD-LTE: B1/B2/B3/B5/B7/B8/B20/B28a/B28b
<b>5G NR</b>	N1/N3/N5/N8/N28/N38/N41/N77/N78/N79

## ENVIRONMENTAL PERFORMANCE

<b>THERMAL TOLERANCE</b>	Operating: -20 °C to 50 °C (-4 °F to 122 °F) Storage: -30 °C to 60 °C (-22 °F to 140 °F)
<b>HUMIDITY TOLERANCE</b>	5% to 95% non-condensing
<b>ELECTROSTATIC DISCHARGE</b>	±15 kV air discharge, ±8 kV direct discharge
<b>IMPACT &amp; SEALING</b>	1.5 m drops to concrete (six sides, one drop per side)   IP67 Sealing Standard

## REGIONAL DEPLOYMENT CONTACTS

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