

ESY-U0605

5.5" Rugged RTK GNSS Data Controller

Features

- 5.5" RTK Handheld Terminal
- Android 12 OS
- With Four-Wall Helical Antenna
- 1080P Resolution, 500 nits Brightness
- Durable Corning Glass Screen, Scratch-Resistant
- Battery – 9000mAh Battery
- Supports Dual-Band Wifi and 4G
- Slim and Lightweight Design, Sunlight-Readable Display

Appearance





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Revision Table

Date	Revision	Content	By
2025/8/21	0.1	First Draft	Elio

ACT POWER TAIWAN
Preliminary

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Specification

System	
OS	Android 12
CPU	Qualcomm SDM 662 Octa-Core 2.0 GHz
RAM	4GB SDRAM
Flash Memory	64GB
Memory Card	Micro SDHC Up to 128GB
Physical	
Dimension (LxWxH)	228 mm x 96 mm x 21 mm
Weight	420g (Including Battery)
Keypad	QWERT KEY
GNSS Accuracies	
Channel	1408
Constellation	BDS: B1I, B2I, B3I, B1C, B2a, B2b
	GPS: L1C/A, L1C, L2P (Y), L2C, L5
	GLONASS: L1,L2
	Galileo: E1,E5a,E5b, E6*
	QZSS: L1, L2, L5, L6*
	SBAS*: L1,L5
RTK	2cm HRMS
SBAS	<1 m HRMS
Communication	
SIM Card Type	Nano-SIM Card
Wifi	802.11a/b/g/n/ac

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Specification

Network Modem	GSM: 850/900/1800/1900
	WCDMA: B1/B2/B4/B5/B8
	LTE-TDD: B34/B38/B39/B40/B41
	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B25/B26/B28
Bluetooth	V5.0
USB	Type C, OTG Supported
NFC	Support
Electrical	
Li-Ion Battery Capacity	9000mAh
Operation Time	22 Hours
Charging Time	4 Hours (Typical)
Others	
Sensors & Multimedia	13MP Rear Camera with Auto-Focus and Flash
	GNSS (BDS, GPS, GLONASS) A-GPS Support
	G-Sensor
	Gyroscope
	E-Compass
	Light Sensor
	Speaker
	Microphone

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Environment Compliance

Operating Temp	-20°C to +65°C
Working Temp	-30°C to +70°C
Humidity	5% - 95% (Non-Condensing)
IP Level	IP68
Shock & Vibration	1.2m Fall on Concrete

Environmental performance may vary according to the integration method or final integration scenario.

Reference Drawing





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Deliverables

1	5.5" Rugged RTK GNSS Data Controller
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Ordering Information

Model Name	Description	Unit
ESY-U0605	5.5" Rugged RTK GNSS Data Controller	1

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