

GS U20 Ultra High Frequency RFID Data Collection Terminal



FEATURES

- Equipped with the industry's top IMPINJ E710 chip, U20's receiving sensitivity is up to 4dB. There are 3 frequency bands of 920-925 MHz, 902-928 MHz, and 865-868 MHz. It supports for EPC C1 GEN2/ISO18000-6C protocol, and has stable performance of label recognition in a variety of scenarios.
- U20 has 4dBi circular polarization antenna, which supports wide-range scanning, and scanning distance is up to 12M. There is nearly no any requirements on the direction of tags, so that scanning and reading applications are more flexible, more accurate, and more convenient with high efficiency during daily work.
- The group reading speed of RFID label is up to 200 tags per second.
- Equipped with industry-leading 2D scan engine, U20 accurately and quickly reads all kinds of bar codes and 2D codes. Its wide scanning range and scanning distance make scanning applications more flexible and faster.
- U20 has high-capacity battery of 10000mAh, which ensures high-intensity data collection applications. It supports 18W fast charging, so that power can be replenished quickly in the work gap. There is no need to worry about high-intensity continuous work the entire day any more.
- IP65, waterproof and dustproof, adapt to a variety of working environment.

PRODUCT SPECIFICATION

GS U20 UHF RFID Data Collection Terminal

PHYSICAL PARAMETER

Dimensions	159.5mm(L)×99mm(W)×147.69mm(D) 6.28in.(L)×3.901in.(W)×5.811in.(D)
Weight	635g/22.4oz.(include battery)
Keypad	Virtual Keys: Menu Key, Home Key, Return Key Physical Keys: Left/Right Scan Key, Power key, Volum Key Functional Keys: SCAN/RFID switch Key
Notification	Vibration/LED /Audio

PLATFORM AND FEATURES

Operating System	Android 9.0
CPU	Octa-Core, up to 2.0GHz, 12nm
Display	5.45" TFT(LTPS), HD+, 720×1440
Touch Panel	GFF 10-point touch control, wet hand operation and glove operation available
Memory	4GB RAM+64GB ROM
SIM	Nano SIM slot×2
Extended Storage	Micro SD Card, up to 64GB
Camera	Front camera 5M, rear camera 13M, PDAF, Quick Focus+Night Shot Light
Battery/Charger	10000mAh, non-removable
Network Connections	USB, OTG
Motion Sensors	Optical Distance Sensor/Gravity Sensor/Gyroscope/ Geomagnetic Sensor

UHF RFID SPECIFICATION

Frequency	Three frequency bands available: 920-925 MHz / 902-928 MHz / 865-868 MHz
Protocol Standard	EPC C1 GEN2/ ISO 18000-6C
Antenna Parameter	Circularly polarized antenna(4dBi)
Power Output	+5 dBm~+30 dBm
Reading Distance	Up to 12M(circularly polarized, outdoor open environment, 9662 tag card)
Group Reading Speed	Up to 200 tags/s

* The reading distance and group reading rate are related to the real environment.

RF SPECIFICATION

Bluetooth	BT 5.0
WLAN	Wi-Fi 802.11 a/b/g/n/ac (Dual-band: 2.4GHz+5GHz)
WWAN	GSM: B2/B3/B5/B8 CDMA/CDMA-EVDO: BC0 TD-SCDMA: B34/B39 WCDMA: B1/B8 TDD-LTE Bands: B34/B38/B39/B40/B41 LTE_FDD/TDD Bands: B1/B3/B8 CA: B3+B3 2CA: B1+B3 2CA
GPS	GPS/AGPS/Glonass/Beidou

PERFORMANCE CHARACTERISTICS

Optical Resolution	1280×800 pixels
Sensor	2D CMOS
Field of view	Pitch: +/-60° Roll(Tilt): 360° Skew(Yaw): +/-45°
Scan Angles	38.5° horizontal 28.9° vertical
Illumination	White LED
Aiming	Red Cross Laser(650nm)
Symbol Decode Capability	1D: Codabar, Code 11, Code 128, Code 39, Code93, EAN8, EAN13, GS1 128, Matrix 2 or 5, Trioptic, IATA25, INT25, MSI, STRT25, Telepen, UPC-A, UPC-E0, UPC-E1, NEC25, USPS4CB, HK25 2D: Aztec Code, Grid Matrix, Data Matrix, Hanxin, Maxicode, MicroPDF, PDF417, QR, RSS, RSL, RSE, Codablock A, Codablock F

DECODE RANGES

7.5 mil Code 39	3.15in. - 9.061in. /80mm - 230mm
9.2 mil Code39	2.76in. - 10.24in. /70mm - 260mm
10 mil Data Matrix	5.12in. - 6.30in. /130mm - 160mm
12.5 mil Code128	1.97in. - 17.32in. /50mm - 440mm
20 mil QR Code	2.36in. - 23.82in. /60mm - 605mm
25 mil Code128	6.30in. - 54.33in. /160mm - 1380mm

USER ENVIRONMENT

Operating Temperature	-4°F~-131°F/-20°C~55°C
Storage Temperature	-40°F~140°F/-40°C~60°C
Humidity	0%-95%,non-condensing
Drop Spec.	Survive from 4.92 ft. /1.5m multiple drops
IP Level	IP 65
ESD	±8kv contact discharge, ±12kv air discharge

SOFTWARE SUPPORT

Generalscan Keyboard Pro
Generalscan SDK Demo
Generalscan OTA Tools
G-Service

OPTIONAL ACCESSORIES

USB Type-C Cable, Adaptor, Resource Download Card

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