

GLMC 1 & GLMC 2

Cost-effective and ruggedized GNSS receivers with Linux operating system, many different interface types and communication methods supporting large-capacity data storage.



GLMC 1
GNSS Receiver, Base Station, Machine Control

All constellations & all frequencies

Comprehensive network coverage and compatible with global network providers

Safe encrypted data & cloud management

Heading with dual antenna (GLMC 2 only)

Many hardware interfaces and a variety of protocols

Intelligent Linux OS and flexible route management



GLMC 2

GNSS Receiver, Machine Control, Dual Antenna Heading

System

Hardware System ARM Cortex-A7 1.8 GHz

OS Linux

GNSS

GPS (GLMC 1) L1 C/A, L1C, L2P(Y), L2C, L5
GPS (GLMC 2) L1 C/A, L2P/L2C, L5

GLONASS (GLMC 1) L1, L2, L3
GLONASS (GLMC 2) L1, L2

BDS (GLMC 1) B1I, B2I, B3I, B1C, B2a, B2b(PPP)
BDS (GLMC 2) B1I, B2I, B3I, B1C, B2b(PPP)

GALILEO E1, E5a, E5b, E6(PPP)

QZSS L1, L2, L5

SBAS (GLMC 1) L1(PPP)
SBAS (GLMC 2) L1C/A

NavIC (IRNSS) L5 (IRNSS support in future)
(GLMC 1 only)

Channel 1408

Differential Observation Accuracy (RMS) 10.0 cm

Kinematic Phase Observation Accuracy (RMS) 1.0 cm

Data Format RINEX, Custom

Position Data NMEA-0183

Differential Data RTCM 3.X

Data Update Frequency 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

Receive Data Availability $\geq 98\%$
(Data available/Data collected)

Data Integrity $\geq 98\%$ (Data collected/
Data should be collected)

Single (RMS) Horizontal: 1.5 m / Vertical: 2.5 m

RTK (RMS) Horizontal: \pm (8 mm + 1 ppm)
Vertical: \pm (15 mm + 1 ppm)

Static Accuracy (RMS) Horizontal: \pm (2.5 mm + 0.5 ppm)
Vertical: \pm (5 mm + 0.5 ppm)

Timing Accuracy (RMS) 20 ns

Heading Accuracy (RMS) (GLMC 2 only) 0.2°/m

System

Serial port Standard RS232 interface,
Baud rate supports 1200, 2400,
4800, 9600, 19200, 38400,
115200, 230400 bps

USB Integrated on the 7-pin interface,
support access to the computer to
copy data directly

Network port Standard RJ45 interface,
10/100 Mbps network adaptive

Network Communication (Full Netcom) LTE FDD: B1/2/3/4/5/7/8/12/13/
18/19/20/25/26/28
LTE TDD: B38/39/40/41
WCDMA: B1/2/4/5/6/8/19
GSM: B2/3/5/8

Interface PWE \times 1: Power supply port,
DATA \times 1, PPS \times 1,
SIM \times 1: Nano SIM card,
Ethernet \times 1,
4G \times 1: 4G antenna port,
GNSS \times 1: main antenna (GLMC 1) /
GNSS \times 2: TCN port (GLMC 2)

Storage 32GB, circular storage,
support multi-channel storage

Electrical

Voltage Input 9-24 VDC (12 V typical)

Power Dissipation (GLMC 1) 1.8 W (typ)
Power Dissipation (GLMC 2) 2 W (typ)

Environment

Operating Temperature -40°C to +85°C

Storage Temperature -40°C to +85°C

Ingress Protection IP68

Physical

Material Magnesium alloy main body

Dimension 148.8 \times 105 \times 50.3 mm

Weight 490 g

Errors and technical modification subject to change.

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