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Архангельск (8182)63-90-72	Иркутск (395)279-98-46	Мурманск (8152)59-64-93	Самара (846)206-03-16	Тула (4872)33-79-87
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Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Нижний Новгород (831)429-08-12	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Новокузнецк (3843)20-46-81	Севастополь (8692)22-31-93	Улан-Удэ (3012)59-97-51
Благовещенск (4162)22-76-07	Кемерово (3842)65-04-62	Ноябрьск (3496)41-32-12	Саранск (8342)22-96-24	Уфа (347)229-48-12
Брянск (4832)59-03-52	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Владивосток (423)249-28-31	Коломна (4966)23-41-49	Омск (3812)21-46-40	Смоленск (4812)29-41-54	Чебоксары (8352)28-53-07
Владикавказ (8672)28-90-48	Кострома (4942)77-07-48	Орел (4862)44-53-42	Сочи (862)225-72-31	Челябинск (351)202-03-61
Владимир (4922)49-43-18	Краснодар (861)203-40-90	Оренбург (3532)37-68-04	Ставрополь (8652)20-65-13	Череповец (8202)49-02-64
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Timing Multi-GNSS Receiver Module Model GT-100/GT-9001/GT-90



The world's highest stability, less than 4.5 ns (1sigma) and lowest degradation of stability in harsh urban environments.

- Unrivalled performance for 5G RAN, Radio Systems, Time servers
- Dual band, supporting all constellations (GT-100)
- Highly precise time & ultra-low jitter 1pps synchronized with UTC
- High Robustness - guaranteed performance even if only L1 or only L5 are used
- Programmable frequency clock outputs synchronized with UTC (GT-9001 & GT-100)
- Excellent performance even in harsh environments

The GT-100, GT-9001 and GT-90 are a new generation of GNSS receiver modules for time synchronization that enable GNSS reception worldwide.

GT-100 is full-featured highly robust model, supporting dual-frequency band reception (L1 and L5).

GT-9001 supports L1 and delivers high stability 1PPS and programmable clocks on three channels.

GT-90 supports L1 and provides a 1 PPS high stability output.

All models feature the world's best-in-class time stability of less than 4.5 ns (1 sigma) and are equipped with Dynamic Satellite Selection™ (DSS). DSS is the leading multipath-resistant algorithm developed by NTT that minimizes degradation of time performance even when the antenna is installed in urban areas or near a window.

Android™ driver and API

Furuno can provide Android driver and API, which can be used with Furuno's GNSS chip/module for Android application developers.

Android driver may help to reduce the development cost to install the GNSS chip/module in the navigation devices or the automotive devices based on Android.

for more details, click here

Embedded Flash ROM

Suitable for long-term use backed by FURUNO's continuous support and function enhancement

Suitable for Automotive Applications

Market's standard size, superior design for assembly

- 24Pin LCC (Leadless Chip Carrier)
- 12.2mm x 16.0mm x 2.8mm
- Visible soldering condition with end-face electrodes

GENERAL

GNSS Reception Capability

GPS L1 C/A, GLONASS L1OF, QZSS L1 C/A, SBAS L1 C/A
Galileo E1B/E1C*
(Ready): QZSS L1S

*ref. "Galileo OS SIS ICD Issue 1 Revision 1 September 2010"

GNSS Reception

32 channels (GPS, GLONASS, Galileo, QZSS, SBAS)

Update Rate

1 / 2 / 5 / 10 Hz

Sensitivity

GPS

Tracking: -161 dBm
Hot Start: -161 dBm
Warm Start: -147 dBm
Cold Start: -147 dBm
Reacquisition: -161 dBm

GLONASS

Tracking: -157 dBm
Hot Start: -157 dBm
Warm Start: -143 dBm
Cold Start: -143 dBm
Reacquisition: -157 dBm

*Measurement platform with recommended active antenna

Position Accuracy (Horizontal)

GPS: 2.5m (CEP)
GPS + SBAS: 2.0m (CEP)
GPS + SBAS + GLONASS: 2.0m (CEP)

*Measurement platform with recommended active antenna
*Update rate: 1 Hz

TTFF (Typical)

Hot Start: <1 sec (@-130 dBm)
Warm Start: 30 sec (@-130 dBm)
Cold Start: 33 sec (@-130 dBm)

*Measurement platform with recommended active antenna

Supply Voltage

3.3VDC

Power Consumption

Acquisition Mode: 72 mA

Backup Supply

1.4 to 3.6VDC / 10 μ A (Typ)

Operating Temperature

-40°C to +85°C

Storage Temperature

-40°C to +85°C

Package

24 Pin LCC(Leadless Chip Carrier)
12.2mm x 16.0mm x 2.8mm

Protocol

eSIP (NMEA 0183 Standard Ver 4.10) FURUNO Binary

Interfaces

UART, Time Pulse

Anti-Jamming

Available

Multipath Mitigation

Available

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