

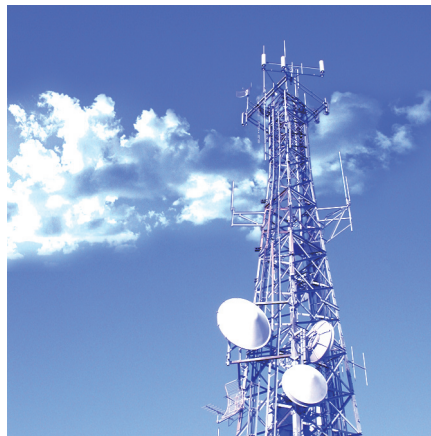
The Furuno GT8036 is our new Motorola M12M Oncore compatible GPS/Timing receiver. It features an identical footprint to the Motorola M12M device and is therefore a direct drop-in replacement for all applications requiring a highly accurate timing device operating in a M12 protocol environment. The GT8036 surpasses the Motorola M12M with a very fast TTFF (time to first fix) of 52 sec., and an excellent "Hot Start" time of 9 sec. The GT8036 also offers very fast signal acquisition and recovery speed.

The GT8036 has excellent 1PPS output with position hold and automatic site survey software, T-RAIM Select, T-RAIM Alarm and Status messages.

Coupling the legendary Furuno reliability with the unique M12M compatible protocol makes the GT8036 your best choice when replacing existing Motorola M12M Oncore boards or whenever your needs require a stable and reliable M12 protocol compatible GPS receiver.

This board is currently available and is being delivered to several major timing customers. Furuno has been designing and manufacturing our own timing solutions for over 20 years.

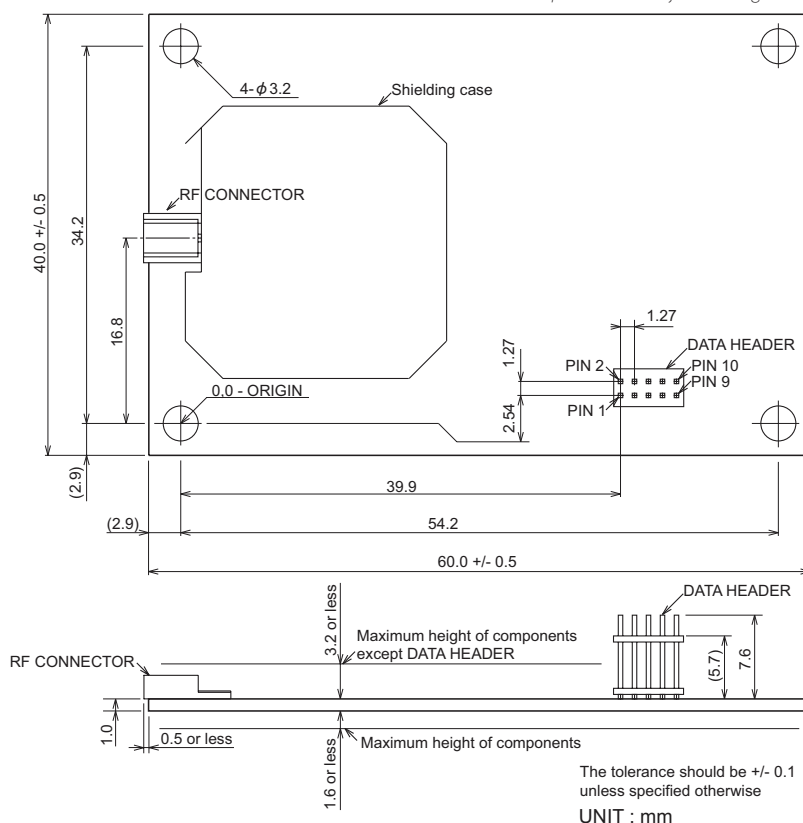
GT-8036 GPS Receiver



SPECIFICATIONS OF FURUNO GT-8036 TIME TRANSFER GPS RECEIVER:

GENERAL	
Number of Channels	12 Parallel Channels
Receiving Frequency	1575.42 MHz
Position-Fixing System	All-in-view SPS position-fixing (DGPS RTCM-SC104)
Sensitivity	-138 dBm (minimum)
1PPS Output	UTC-synchronized (1 pulse per second) using "survey" or "fixed position set"
Max. Number Satellites Tracked	GPS12ch + SBAS 2ch (Only one channel decodes messages)
Protocol/Baud Rate	Motorola M-12 Compatible
T-RAIM (Time-Receiver Autonomous Integrity Monitor)	Yes
GPS-Fix Data Renewal Rate	1 sec
Supply Voltage	3.0 to 3.6 VDC
Supply Current at 3.3 VDC	58mA (full tracking operation)
Antenna Supply Voltage (Vant)	4.5 to 5.5 VDC (maximum)
Backup Power Supply	3.3 VDC
Temperature	-40 C to +85 C
ACQUISITION TRACKING	
Initial acquisition Time (hot start)	9 sec. (typical)
Initial acquisition Time (warm start)	37 sec. (typical)
Initial acquisition Time (cold start)	52 sec. (typical)
Re-acquisition Time	2 sec. (max) (=> -127 dBm signal is interrupted for <10 sec)
Horizontal Accuracy	15 m (2_) (typical)
Vertical Accuracy	22 m (2_) (typical)
Trackable Acceleration (Dynamics)	1.2G (min)
Time Accuracy	34 ns (typical)
ANTENNA	
Pre-amplifier Gain	15-35 dB (cable loss included)
Pre-amplifier Noise	2 (typ) -3 (max) dB

All specifications subject to change without notice



Profit from:

- Direct replacement for all existing or new Motorola M12M
- No hardware or software re-design of your product
- No expenditure of money or time to continue seamlessly with your current product
- Furuno, a trusted GPS timing partner with years of guaranteed dependable and available products

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FURUNO

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