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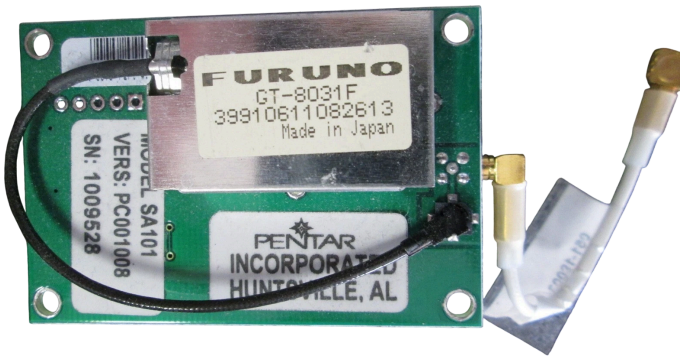
Data Sheet
August 15, 2026

FURUNO

Furuno GT-8031 16-channel GPS timing receiver module

Furuno GT-8031 16-channel GPS timing receiver module, tested working. Tracks 12 GPS and 2 SBAS satellites, 1PPS output, NMEA-0183, 3.3V supply.



MODEL Furuno GT-8031	CALIBRATION Available on request
CONDITION New	STATUS In stock
RFQ / SKU GT-8031	LISTING https://aumictechlabs.com/products/gt-8031/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Furuno GT-8031 is a 16-channel GPS timing receiver module designed for precision time synchronization applications. It tracks up to 12 GPS satellites and 2 SBAS satellites simultaneously, outputs a 1PPS signal synchronized to UTC, and communicates over NMEA-0183. It shows up in telecom infrastructure, network timing equipment, frequency standards, and NTP/PTP server builds where GPS-disciplined timing is the requirement. Key Specs Channels: 16 (12 GPS + 2 SBAS simultaneous tracking) Signal: L1, C/A code Position Accuracy: 5.6m horizontal (typical), 7.3m vertical (typical) Time Accuracy: 30 nanoseconds (1PPS to UTC, typical) 1PPS Output: Yes, UTC synchronized Hot Start: 8.4 seconds Warm Start: 36 seconds Cold Start: 44.9 seconds Protocol: NMEA-0183 (approved and proprietary sentences) Baud Rate: Configurable Supply Voltage: 3.3V DC Interface: Serial (UART) SBAS: WAAS, EGNOS, MSAS supported Form Factor: PCB module Operating Temp: -40°C to 85°C (storage) The 1PPS output is what this module is actually used for in most applications. Position fixing is secondary. The 30 nanosecond

1PPS accuracy to UTC is what makes it useful in timing infrastructure, GPS-disciplined oscillators, and synchronization equipment from companies like Symmetricom, Datum, and Brandywine. If you have a timing server that originally used a Motorola M12 or M12+ and need a modern replacement module, the GT-8031 is one of the direct candidates.

GT8031 Characteristics / Specifications

PARAMETER	VALUE
Model	GT-8031
Instrument Type	GPS timing receiver module
Channel Count	16
Manufacturer	Furuno
Form Factor	timing receiver module
Application Class	GPS disciplined timing
System Role	GPS timing engine
Use Case	1 PPS and time of day
Documentation Type	OEM Furuno GT-8031 listing
Constellation	GPS
Timing Output Class	1 PPS
Tod Class	time of day
Antenna Class	GPS antenna input on the GT-8031
Supply Class	module DC supply on the GT-8031 sheet
Interface Class	serial time/status on the GT-8031 sheet
Accuracy Class	GPS timing accuracy on the GT-8031 sheet
Sensitivity Class	acquisition/tracking on the GT-8031 sheet
Operating Temperature Class	GT-8031 temperature range on the sheet
Brand Lineage	Furuno
Literature	Furuno GT-8031 16 channel GPS timing receiver literature
Mounting Class	module
Protocol Class	NMEA/timing protocol on the sheet
Backup Class	RTC/backup on the GT-8031 sheet
Rf Connector Class	GPS RF input
Operating temperature	Class: GT-8031 temperature range on the sheet

GT8031 Specifications

PARAMETER	VALUE
Applications	GPS disciplined timing, 1 PPS reference, and time of day for telecom and test systems.
Key Features	16 channel GPS timing receiver
Technical Specifications	Model: GT-8031

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: GT-8031 temperature range on the sheet
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Brand Lineage	Furuno
Literature	Furuno GT-8031 16 channel GPS timing receiver literature
Mounting Class	module
Protocol Class	NMEA/timing protocol on the sheet
Backup Class	RTC/backup on the GT-8031 sheet
Rf Connector Class	GPS RF input Notes From Furuno GT-8031 16 channel GPS timing receiver module listings. 1 PPS accuracy, sensitivity, and DC current are on the GT-8031 sheet; do not invent nanosecond figures.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Notes

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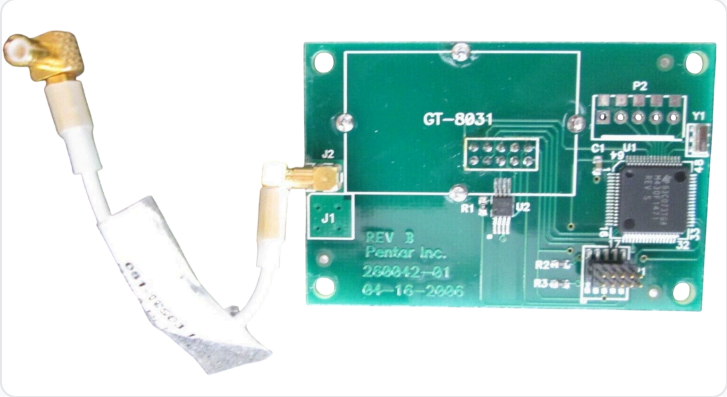
Unit photos


GT-8031
P2
Y1
C1
U1
J2
J1
R1
U2
REV B
Pentax Inc.
280042-01
04-16-2006

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sales@aumictech.com · +1 (484) 841-9341
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