

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

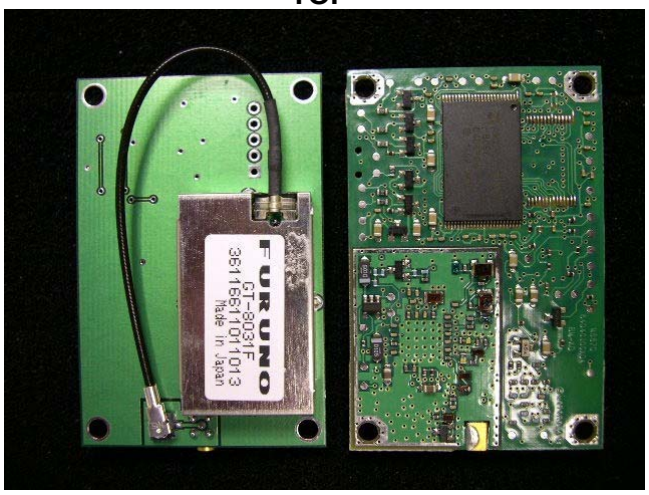
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Pentar SA101* at our website: *Click HERE*

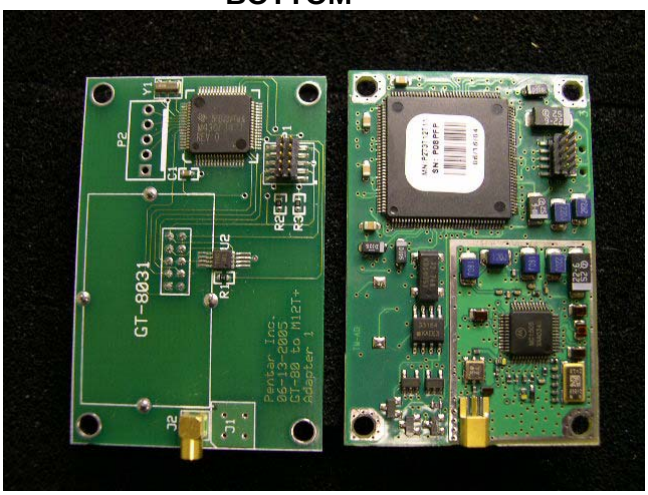
SA101 SPECIFICATIONS

Pentar's SA101 is a module that adapts a Furuno GT-8031 to a form factor and binary messaging protocol nearly identical to that of the Motorola M12T+. Below are top and bottom photos of the SA101 and M12T+ side by side. The SA101 is on the left in both photos.

TOP



BOTTOM



The following are differences between the SA101 and the Motorola M12T+.

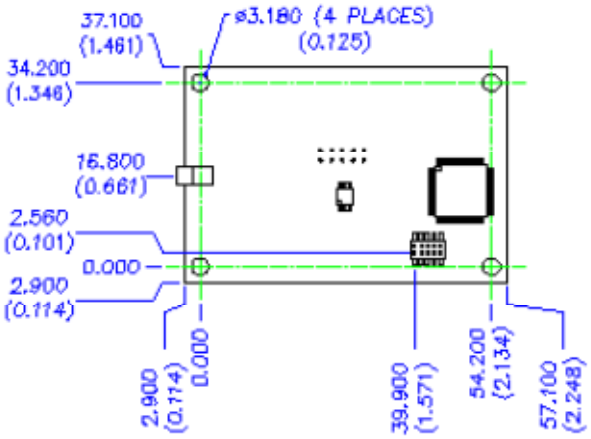
Mechanical Differences:
1. The SA101 PCB is thicker at 1/16 inch.
2. The SA101 has a right angle MMCX vs. a coplanar connector on the M12T+.
3. The GT-8031 on the topside makes the SA101 assembly approximately 7mm thicker.

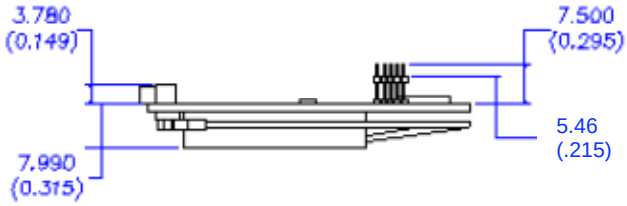
Electrical differences:
1. The SA101 operating voltage is 3.0 to 3.6VDC vs. 2.85 to 3.15 VDC for the M12T+.
2. Pin 8 on the data connector (RTCM IN on the M12T+) is not connected to anything.

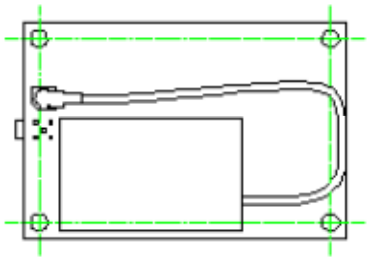
Protocol differences:
The SA101 contains a microcontroller that does protocol conversion between the Furuno GT-8031 protocol and the Motorola M12T+ protocol. There are several differences detailed in the document "PC001 vs M12T+ Differences". The microcontroller firmware is PC001.

© Pentar Inc.
906 Bob Wallace Ave., Suite F
Huntsville, AL 35801
Phone: (256) 519-8051

SA101 DIMENSIONS







NOTE:

- RECOMMENDED MATING SOCKET IS SAMTEC CLP-105-02-L-D-XX SERIES.
- BOARD-TO-BOARD MINIMUM HEIGHT IS 8.0 mm (.315)

© Pentar Inc.
906 Bob Wallace Ave., Suite F
Huntsville, AL 35801
Phone: (256) 519-8051

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP