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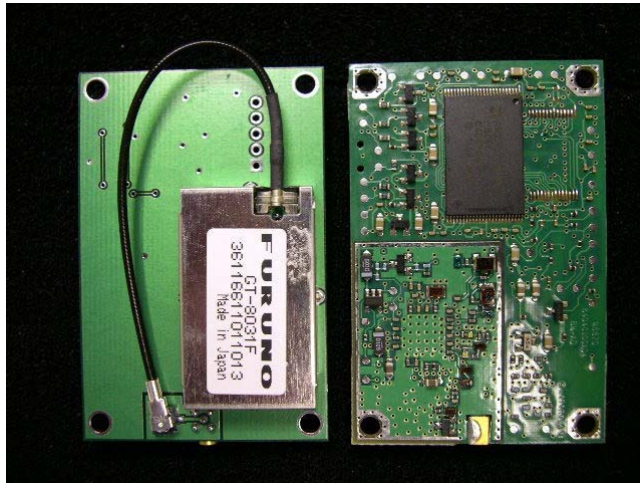
Find the *Pentar SA101* at our website: **Click *HERE***



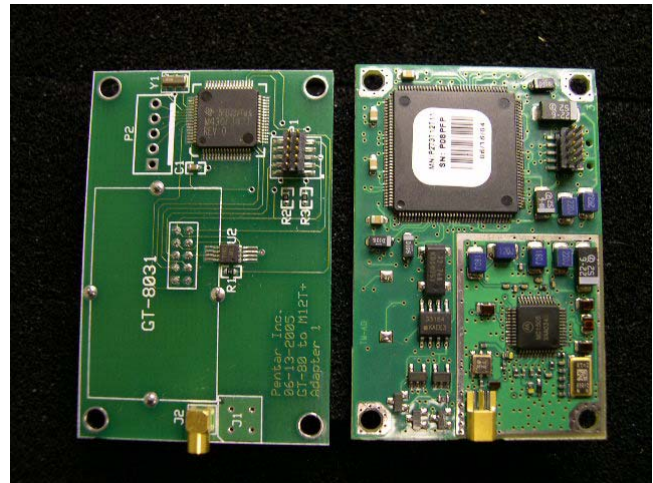
SA101 SPECIFICATIONS

Penttar'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.

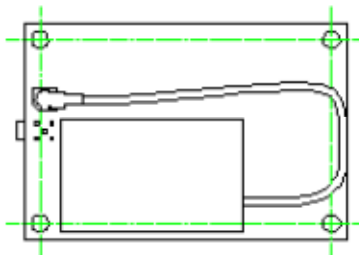
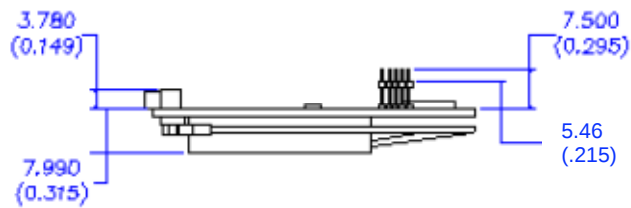
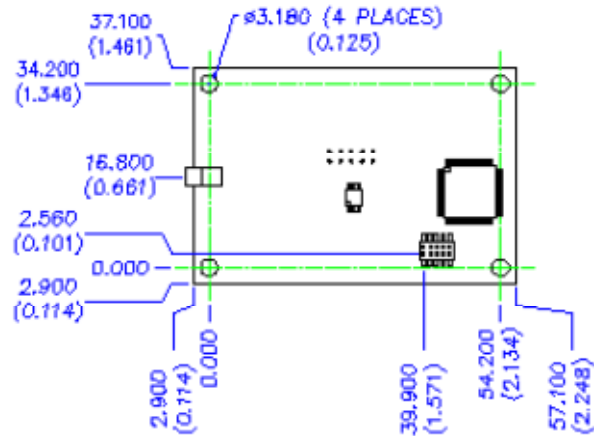
Electrical differences:

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.

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)

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