GPS Module

GPS module

Overview

GPS clock synchronization module is specifically designed for SICOM3028GPT series which support PTP protocol. The GPS receiver and precise clock included in the module can provide an extremely precise GPS signal for host switches. The module also can provide high precision clock when the GPS signal is temporarily lost.

Key Features

Designed for the SICOM3028GPT-L2GT,SICOM3028GPT-L2FT,SICOM3028GPT-L3GT,SICOM3028GPT-L3FT and managed by the chassis

14 channels GPS C/A coding receiver

High precision stable crystal oscillator with excellent time keeping performance

One PPS +5V TTL level output with BNC connector

Supports hot-swap for easy maintenance (only can replace the same type of module)

Product Specifications

>Product Specifications
-Technical specifications

Receiver: 14 channels GPS C/A coding receiver

Sensitivity: Tracking Sensitivity: -160 dBm, Acquisition Sensitivity: -155 dBm

Operating frequency: 1575.42MHz±1.023MHz

-Interface

GPS Input: 5VDC, BNC connector

PPS Output: +5V, 50Ω, adjustable pulse width, BNC connector

-LED

LEDs on front panel

Satellite positioning LED: Fix

System clock lock LED: Lock

-Power Requirements

Power input: 3.3VDC

Power terminal: A type interface (powered by backplane)

Power consumption: <4.5W (booting), 3W (operating)

-Physical Characteristics

Housing: Metal

Cooling: Natural cooling, fanless

Dimensions(WxHxD): 122.6mm×20.25mm×106.6mm(4.83×0.80×4.20 in.)

Weight: 0.3Kg (0.661 pound)

-Environmental limits

Operating temperature: 0°C to +50°C (32°F to 122°F)

Storage temperature: -20°C to +70°C (-4°F to 158°F)

Ambient Relative Humidity: 5% to 95% (non-condensing)

-Quality assurance

Warranty: 5 years

-GPS Precision Parameters

Short term stability (t=1s): 1x10^-9 s

PPS precision: <=60ns

1 day hold precision: <=6 μs

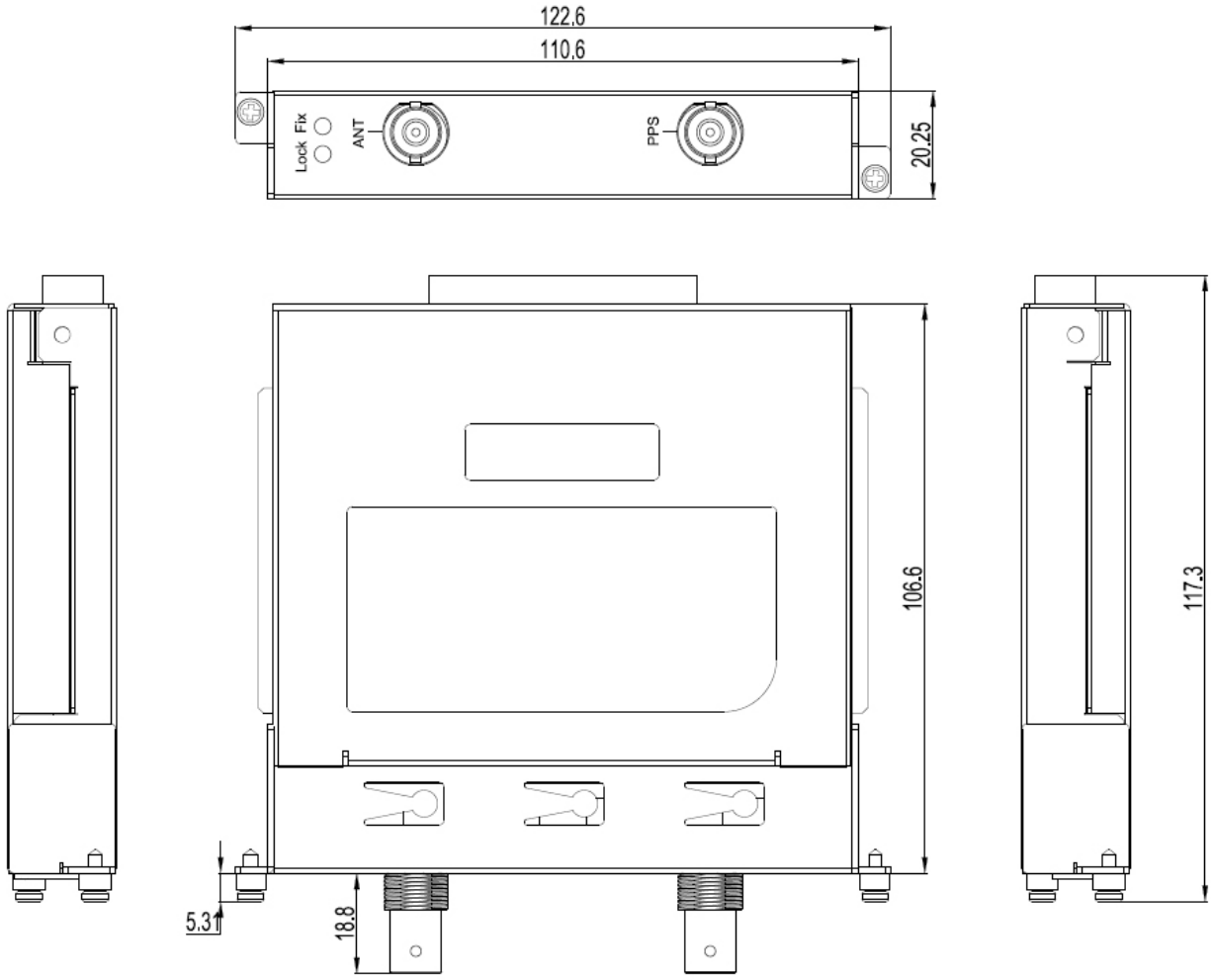
Lock time: <20 min (Cold boot, typical value)

-Approvals

CE, FCC

IEC 60950-1, EN 60950-1

Mechanical Drawing



Ordering Information

SM6.6-GPS-OI-0.5U: GPS module, one GPS input, BNC connector; one PPS output, BNC connector

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