

I-8211W-G

Time Sync Module, using GPS, GLONASS (Asia Only)

Features

- Time error under 1 millisecond
- Support GPS, GLONASS
- Capable of SBAS (WAAS, EGNOS, MSAS)
- Plug and Play in LinPAC (LX-8x31, LP-8x21) series

Introduction

I-8211W-G is a GPS, GLONASS receiver module designed to use GPS, GLONASS satellite time for automatic and precise time synchronization. The I-8211W-G can be plugged into any slot of the LinPAC, the LinPAC will automatically launch the application and acquire GPS, GLONASS time to reduce RTC drift to 1ms. The I-8211W is preset to receive GPS signals, you can modify the LinPAC settings to receive GLONASS signals.

PS: LinPAC with NTPD package: LP-8x21, LX-8x31

```
root@icpdas:~# ntpq -p                                    Time error < 1 ms
     remote           refid      st t when poll reach   delay   offset  jitter
==============================================================================
oGPS_NMEA(0)     .GPS.            0 l   15   64  377    0.000   -0.068   0.148
```

System Specifications

LED Indicators	
Status	1 x Power 1 x GPS/GNSS
GPS/GNSS	
Acquisition Time	Cold Start (Open Sky)=42 s (typical)
Frequency	L1 1575.42 MHz, C/A code
Max. Altitude	<18,000 m
Max. Velocity	<515 m/s
Position Accuracy	Capable of SBAS (WAAS, EGNOS, MSAS)
Protocol	NMEA 0183 version 3.01
Sensitivity	Tracking: Up to -158 dBm Cold start: Up to -142 dBm
Support Channels	32
Power	
Consumption	0.75 W (Max.)
Mechanical	
Dimensions (mm)	32 x 87 x 114 (W x L x D)
Environment	
Operating Temperature	-25 to +75°C
Storage Temperature	-40 to +85°C
Humidity	10 to 90% RH, Non-condensing

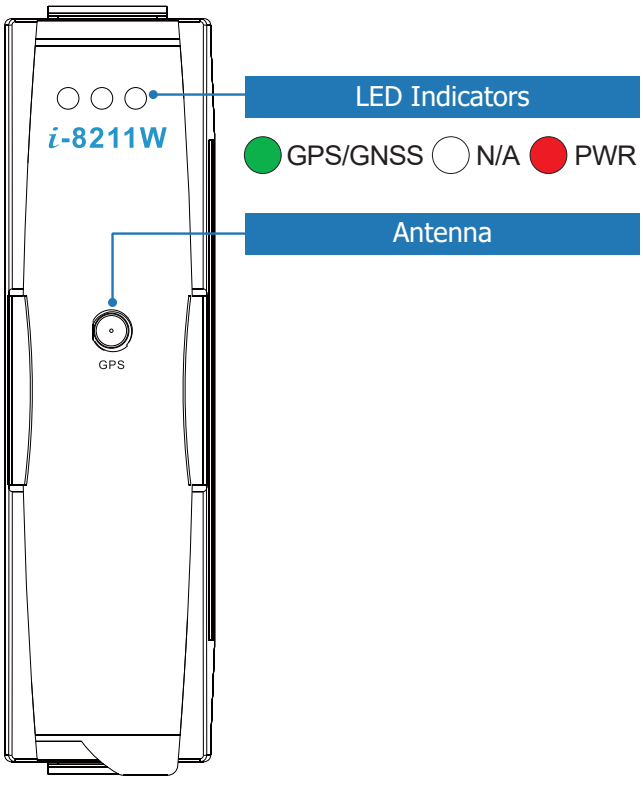
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Applications

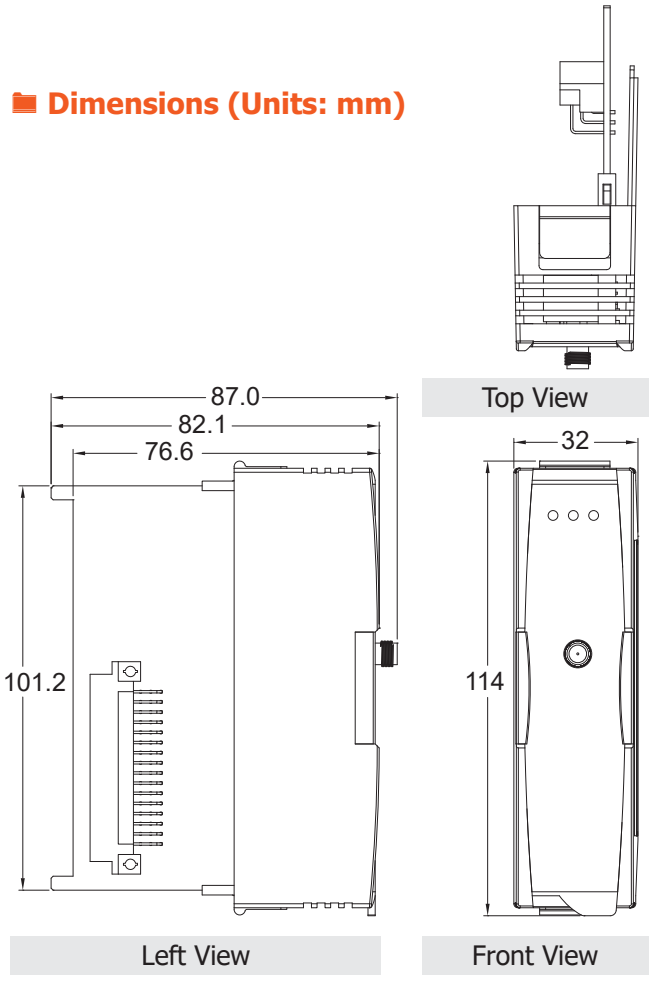
- Satellite time correction
- Precise timekeeping and time measurement



Pin Assignments



Dimensions (Units: mm)



Ordering Information

I-8211W-G CR	Time Sync Module, using GPS, GLONASS (RoHS) (Asia Only) Includes a 5 m antenna (ANT-115-03-2)

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