

Powerlink Time Sync Module

Satellite GPS Based Time Source

- ▶ Satellite GPS based time source
- ▶ Dual outputs, IRIG-B & 1PPS
- ▶ Accuracy 5 microseconds
- ▶ No Coax to install or terminate
- ▶ Designed for timing applications
- ▶ Conical enclosure to shed snow



Increasingly Power companies and other utilities are demanding accurate timing of events to aid the quick identification of faults and speedy resumption of essential services. The **Powerlink Time Sync module** is a self-contained GPS based time source, generating highly accurate outputs, that meets these requirements

With two outputs, one of which is selectable for different formats, the **Powerlink GPS Time Sync module** offers different timing functions to match equipment with which it is connected. The fully rated exterior enclosure offers outstanding performance in the industrial environment ensuring a long life.

Uses Include:

Synchronise electrical substation Intelligent Electronic Devices (IEDs), protection relays, power meters, circuit breakers, reclosers, Load Management System - Injection Controllers & Remote Terminal Units with an IRIG-B input.



Powerlink Time Sync Module

General Characteristics	
Antenna	Motorola Timing2000 Active Antenna 25 dB gain <1.5dB typical noise figure 40dB minimum filtering at +/- 50MHz
Operating Frequency	L1 (1575.42 MHz, +/-2MHz)
GPS Receiver	Motorola M12+ Timing Oncore
Satellite Reception	12 channels
Time to Position hold	2.5 hours
Azimuth Coverage	360°
Elevation	0° to 90°
Output Impedance	50 ohms, 0V/+5V swing unloaded output impedance
Supply Voltage	8-30 VDC
Power Consumption	250mA max

Standards	
	IEEE 1344

Inputs / Outputs	
Output 1	IRIG-B unmodulated
Output 2	1-PPS
RS-232 port	Configuration changes and updates after installation

Cabling	
Cable	10 metres of BELDEN 1421A or AWM 2919 High quality four twisted pairs of stranded wire, with a foil screen, drain wire and reinforcing thread
Max cabling distance	~50 metres

Mechanical	
Dimensions	102mm dia, 82mm height
Weight	320g + cable
Connector	Unterminated bare cable
Mounting	Pole mount bracket provided
Case type	Moulded UV- resistant plastic conical radome Aluminium die cast bottom housing

Environmental	
Temperature	-20°C to +80°C
Humidity	85% non-condensing +30 to +60C
UV Radiation	JIS D0202 (Sunshine Carbon Arc System)
Salt Spray Test	Spray 5% NaCl solvent at 35°C

Ordering Information	
Abbey Systems Part No	B07-061

The GPS (Global Positioning System) facility is operated by the United States government, which is solely responsible for its accuracy and maintenance. The system may be subject to changes which could affect the accuracy and performance of all GPS equipment.

Motorola and the stylised M logo are registered in the US Patent & Trademark Office.

Specifications are subject to change without notice

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