

GPS TimeKeeper | Model: X-GT-024-MG00



Features

- Low Voltage Input
- Powered by 3W Transformer (not included)
- Operable by the Advanced User Level of the BubblyNet App

Certifications



Applications

The BubblyNet GPS based TimeKeeper is required for Bluetooth Mesh installations that uses Scheduled Events that specify high accuracy (less than 10 seconds.)

Installation

The Bubblynet GPS based TimeKeeper features a 9'10" (3m) cable attached to the external antenna for easy installation. Position the antenna in a window where it has direct line of sight to the sky to receive the GPS signals. The best reception is achieved when the GPS antenna has ample open space surrounding it.

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance:

<u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.

Specifications

- Power Input - 5VDC to 24VDC
- GPS Module - GNSS receiver, receives signals from GPS, GLONASS, Galileo and BeiDou Constellations
- TimeKeeper Dimensions - 3-1/2" x 1-5/8" x 1-1/4" (89 x 41.3 x 31.8mm)
- Cable Length - 9'10" (3m)
- Antenna - GPS/GNSS Magnetic Mount
- Antenna Dimensions - 2" x 1-1/2" x 3/4" (50 x 38.1 x 19mm)

Description

The BubblyNet GPS based TimeKeeper is the ideal solution to keep time synchronized across the Bluetooth Mesh network correcting time drift caused by environmental changes such as temperature and humidity. With the BubblyNet GPS based TimeKeeper the scheduled events on the Bluetooth Mesh network will stay synchronized with an accuracy of less than one second. The BubblyNet GPS based TimeKeeper will publish a time update message several times per day to keep all the devices synchronized.

Operation

After powering up the BubblyNet GPS based TimeKeeper, an Advanced User can scan using the BubblyNet App and add it to the Bluetooth Mesh network, then the BubblyNet GPS based TimeKeeper will periodically publish the time several times per day. **Power can be supplied by a 3W transformer, not included, or from the 24VDC auxiliary output of a BubblyNet 0-10V Controller with Relay or Phase Controllers.**