



REPEATIT

Trinity SyncMaster Quick Start Guide

The SyncMaster unit is a standalone unit that enables multiple Trinity master units to be synchronized. The SyncMaster also has a GPS receiver that enables multiple SyncMasters to be synchronized.

Depending on how the Trinity network is built it can be used to synchronize several units to enable more efficient channel usage and to minimize interference.

It is recommended to use a SyncMaster:

- 1) if multiple Trinity units are mounted in the same location (will reduce outbound interference)
- 2) if the same channel will be used in the same location (can not point in same direction)
- 3) if the same channel is used in multiple sites with inbound interference (GPS sync needed)

GPS sync

The SyncMaster has a built in GPS receiver that utilizes a function in the GPS system called PPS. PPS is a very accurate timing pulse that is the same on all GPS receivers globally. The accuracy of the pulse is used to synchronize several SyncMaster with each other. GPS sync is only needed if several sites is synchronized.

Network and setup demands

The performance of the synchronization depends on the underlying network to work properly.

- 1) All units must communicate with Gigabit Ethernet
- 2) All units must be direct connected in the same Gigabit switch
- 3) The Sync traffic must be separated from regular traffic with a sync VLAN that is only valid on the ports that the SyncMaster and synced units are connected.
- 4) All units that are being synchronized needs to have the same raster time settings and time-division.



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Warning: This product should only be installed by a qualified and trained technician familiar with electric and safety regulations.

Installation

Before proceeding with the installation verify that the equipment works on the ground. Power up the unit and connect to your computer, you should have full communication with the SyncMaster two minutes after powering up the unit.

The unit is pre-configured with the following parameters.

	SyncMaster
IP Address	10.0.0.1
Username	admin
Password	public

Installing the SyncMaster

The SyncMaster unit can be mounted indoor or outdoor depending on the needs. The SyncMaster has a built in GPS receiver with an external antenna which makes it possible to synchronize several SyncMaster units with each other.

The GPS functionality is only needed if several different sites shall be synchronized with each other. Connect to the SyncMaster and configure the IP address settings and if valid also the Management VLAN.

- Configure the Sync settings:
 - Sync-Id, this is an id that is show in the Trinity units when choosing SyncMaster.
 - Sync VLAN, which VLAN should the sync traffic be transmitted on.
 - Raster time, Choose the correct channel bandwidth. All units needs to have the same.

Connect a Trinity Unit to SyncMaster

- Log into the web interface of the Unit.
- Go to the configuration page and choose "System settings" on the left menu.
- Enter SyncID and VLAN and check the enable box. Press set and then apply.
- When web interface is updated press save.

Supported master units

Trinity-300
Trinity-318
Trinity-323
Trinity-316S

Package contents

- 1 Trinity SyncMaster.
- 1 Mounting kit.
- 1 PoE with power adapter for your local region.



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