

Implementation Checklist

Choosing a GPS Clock?

Installing GPS Time Synchronization?

Here's a handy checklist to ensure that the product you choose meets all your needs.

EMI Immunity - does the product	<input type="checkbox"/> Comply with relevant international standards (e.g. IEC 60255, IEC 61000)? <input type="checkbox"/> Offer antenna lightning protection?
Power supply requirements - does the product feature	<input type="checkbox"/> Nominal voltage? <input type="checkbox"/> Include full working range with tolerance for "boost charge" conditions?
Antenna - is the antenna	<input type="checkbox"/> A high performance active antenna? <input type="checkbox"/> Filtered for high noise immunity? <input type="checkbox"/> Available with mounting options?
Physical Environment - how suitable is the product for its intended operating environment - check the following:	<input type="checkbox"/> Ambient temperature range for both the receiver and the antenna <input type="checkbox"/> Humidity range <input type="checkbox"/> Does it feature UV resistant antenna housing and down lead? <input type="checkbox"/> Receiver mounting <input type="checkbox"/> Earthing facility <input type="checkbox"/> Premade antenna download
Device Interfaces - do the products specifications meet your requirements for	<input type="checkbox"/> Drive capability? <input type="checkbox"/> Is the product independent and isolated? <input type="checkbox"/> Time code capability? <input type="checkbox"/> Loss of sync output? <input type="checkbox"/> IEEE 1344 extensions for high accuracy? <input type="checkbox"/> Pulse outputs? <input type="checkbox"/> Data rate outputs? <input type="checkbox"/> An NTP server?
User Interface - how easy is the set up and use of the product - does it have	<input type="checkbox"/> Front panel status display? <input type="checkbox"/> A PC based set up menu and configuration tool? <input type="checkbox"/> Support for different time zones and daylight savings adjustment?*
Supplier credentials - does the supplier have	<input type="checkbox"/> A track record with units installed in substations? <input type="checkbox"/> Proven compatibility with the equipment to be synchronized? <input type="checkbox"/> Warranty provisions?

* For most applications it is preferable to have no automatic adjustment for daylight savings. Where an application involves more than one time zone, consider having all clocks output UTC and only make time adjustments at the application user interface level.