



Wireless Synchronized Clock System Product Comparison¹

	DuraTime	Primex ²	Visiplex	Innovation	ATS	Lathem	Pyramid	Sapling	Spectracom ³	Franklin ⁴	Telecor ³
Dual-redundant master clock system available	Yes	No	No	No	No	No	No	No	No	No	No
Redundant time sources – receive GPS, NTP, CDMA simultaneously	Yes	No	No	No	No	No	No	No	No	No	No
Redundant Multi-path wireless data communications	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes
Every clock receives and then retransmits time updates to other clocks	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes
AES 128 bit data encryption for increased reliability	Yes	No	No	No	No	No	No	No	No	No	No
Redundant parallel battery configuration	Yes	No	No	No	No	No	No	No	No	No	No
Redundant time transmissions - 86,400 per day.	Yes	No	No	No	No	No	No	No	No	No	No
Coverage of any size facility without the use of additional master clocks	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes



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Inexpensive AA Alkaline batteries provide 5 years of clock operation	Yes	No	No	No	No	No	No	No	No	No	No
Master clock uses internal antenna	Yes	No	No	No	No	No	No	No	No	No	No
Rule based daylight saving switching – does not become outdated when DST rules change. Other systems may use table lookups.	Yes	?	?	?	?	?	?	?	?	?	?
Analog clocks double step the second pointer to indicate loss of sync	Yes	?	?	?	?	No	?	?	?	?	?
A single wireless GPS or CDMA receiver can sync multiple master clocks	Yes	No	No	No	No	No	No	No	No	No	No
Secondary master clock automatically takes over if primary master clock fails	Yes	No	No	No	No	No	No	No	No	No	No
Maximum RF power allowed is used to retransmit time signals	Yes	No	No	No	No	No	Yes	No	No	No	No



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Wireless audio player / tone generator / relay available including 70 recordings	Yes	No	No	No	No	No	No	No	No	No	No
Interfaces directly with Emergency Mass Notification Systems	Yes	No	No	No	No	No	No	No	No	No	No
Dual master clocks may be stacked or located apart	Yes	No	No	No	No	No	No	No	No	No	No
When a master clock fails, a backup master clock will keep all automatically clocks synchronized.	Yes	No	No	No	No	No	No	No	No	No	No
Frequency used is allowed in most other countries	Yes	No	No	No	No	No	No	No	No	No	No
Can use additional clocks to extend the coverage area in lieu of additional master clocks or repeaters.	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes
May interfere with adjacent cell towers or other cellular communications	No	No	No	No	No	No	Yes	Yes	Yes	No	Yes



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Susceptible to interference from business or other radio traffic.	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FCC License required (periodic renewal required)	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No
Radio band shared with toys, models or cordless phones	No	Yes	No	No	No	No	Yes	Yes	Yes	No	Yes
Wireless clock coverage limited by range of the master clock	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No
Mini-master - diagnostic / receiver / repeater / GPS simulator instrument included	Yes	No	No	No	No	No	No	No	No	No	No
Indicators for primary or secondary master clock operation and last time source received	Yes	No	No	No	No	No	No	No	No	No	No

1 - Information obtained from each respective manufacturer's web site as of July 25, 2011

2 - Primex 72 MHz wireless clock system

3 - Spectracom and Telecor resell the Sapling system

4 - Franklin appears to be reselling the Innovation Wireless system