

Design Change Notification



REFERENCE : 171259-3

Date : 18/03/2019

Equipment : EPSILON CLOCK EC22S

Design Change :

Recommended Software Upgrade

(V6.01-MNGT BOARD – V6.02-CLOCK MODULE)

Dear Valued Customer,

As a part of SPECTRACOM's ongoing commitment to superior product performance and reliability, we inform you that a new application software version is now available for EPSILON CLOCK EC22S products.

Description : Orolia would like to inform our customers about a potential concern regarding the **2019 GPS Rollover Event** scheduled for April 7, 2019. In the process of testing the 2019 rollover event, the Orolia Engineering department has determined that this year's event will potentially affect a limited volume of equipments embedding a Trimble Lassen IQ receiver, despite a Rollover week event compliant notice from the vendor. As a result, the time code may be affected but the GPS will remain locked.

Conclusion : this issue will impact only the NTP/NMEA distribution on units mounted with LASSEN IQ receivers. The disciplining of oscillator and 1PPS/10MHz distribution won't be impacted. If you are concerned by the NTP or NMEA distribution, OROLIA recommends you this Software patch version :

MANAGEMENT BOARD V6.01 : **ec22s_06.01**: Binary version V6.01 for EC22S including the Features to manage WNRO effect on LASSEN IQ receiver.

CLOCK MODULE BOARD V6.02 : **ec22s_clock_06.02** : Binary version V6.01 for EC22S Clock Modules including the Features to manage WNRO effect on LASSEN IQ receiver.

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This patch has to be installed on units which already run in 6.00 or Higher. Please update your units first if it is not the case.

The new version is available free of charge through our SPECTRACOM WEB site at the following addresses :

EC22S Management board patch :

<https://files.spectracom.com/client-downloads/6259>

EC22S Clock Module board patch :

<https://files.spectracom.com/client-downloads/6260>

Additional improvement : If your unit is mounted with RESOLUTION SMT receiver: This receiver has no issue with the GPS 2019 Weekrollover event but this patch provides the advantage to save the next WEEKROLLOVER step of the RES SMT receiver itself (scheduled in 2023) and until 2035 (according the standard GPS constellation architecture).

Note that you can now check the type of your receiver in the Tools/Versions menu : (see example for Lassen IQ type) :

HARDWARE AND SOFTWARE VERSIONS

- ▶ Management Board : 06.01
 - ▶ Left Clock () :
 - ▶ Right Clock (Master) : 06.02
 - ▣ Hardware Version : 10
 - ▣ GNSS Version : LassenIQ - 1.16.0
 - ▶ Distribution Board : 01.10
 - ▶ Options
- [expand all](#)

Designed by SPECTRACOM, a trademark of the OROLIA group.

See installation guide at the end of this document.

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Changes notifications

PREVIOUS VERSIONS :

V2 version :

MANAGEMENT BOARD V 2.01 : Binary version V2.01 for EC22S including the following improvements:

CLOCK MODULE BOARD V 2.01 : Binary version V2.01 for EC22S including the following improvements:

- *Improvement of the Upgrade system process.*
- *NTP service-Stratum management additional features and NTP signal accuracy improvement.*

V4 version :

MANAGEMENT BOARD V 4.01 : Binary version V4.01 for EC22S including the following improvements:

CLOCK MODULE BOARD V 4.00 : Binary version V4.00 for EC22S including the following improvements:

- *Integration of the new graphic charter of OROLIA/SPECTRACOM.*
- *A new web page is necessary to diagnose a failure of the oscillator.*
- *Change of the meaning of the LEDs on the front of Clocks.*
- *Improvement of the Clock Modules Switch Management.*

V5 version :

MANAGEMENT BOARD V 5.00 : Binary version V5.00 for EC22S including the following improvements:

CLOCK MODULE BOARD V 5.01 : Binary version V5.00 for EC22S including the following improvements:

- *Correction of occasional false DC Power Alarms during Module extraction.*
- *Improvement of the setup saving process after soft upgrade of the CPU board.*
- *SNMP Trap correction when Power DC and AC Defaults occur.*
- *Correction of the Password management with Internet Explorer.*

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- *Improvement of GPS Status management.*
- *Correction of a regression which create the lost of the MAC address when a reset is performed.*

MANAGEMENT BOARD V 6.00 : Binary version V6.00 for EC22S including the following improvements:

CLOCK MODULE BOARD V 6.01 : Binary version V6.01 for EC22S Clock Modules including the following improvements:

- Log files including now DC or AC Power Alarms.
- MIB corrections (syntax)
- Improvement of the network services survey system.
- Improvement of helping messages on Web interface.

Installation guide

The operation is described in the user manual at the 5.2.12 Software Upgrade chapter :

<https://www.orolia.com/documents/users-manual-epsilon-clock-model-ec22s-dual-gps-receiver/attachment>

In case of needed assistance please contact our help desk at :

EMEA Tech Support techsupport-EMEA@spectracom.com

This version of the EC 22S software has to be installed on units delivered until 2014 mounted with LASSEN IQ or RES SMT GPS receivers