Product Change Notification
PCN:2021-09-20: AsteRx-U UHF modem

Affected Products: AsteRx-U UHF, AsteRx-U Marine Fg built with Satel-TR4+ modem
Applicable to: FW version 4.6.3

Due to components shortage, the Satelline-M3-TR4 UHF modem integrated in our AsteRx-U products was replaced by a newer version, the Satel-TR4+.

When testing the performance of the new UHF modem, communication issues were observed in the following configurations:

- AsteRx-U is receiving or transmitting RTCMv2 corrections at any rate and using any protocol
- AsteRx-U is transmitting RTCMv3 corrections at 2Hz or higher using PCCGMSK, or TRIMTALK protocols

Receiving RTCMv3 is unaffected for all supported protocols.

The table below summarizes the UHF functionality for AsteRx-U with Satel-TR4+ UHF modem running FW version 4.6.3:

Corrections format	UHF mode	Rate	Protocol	Supported
RTCMv2	Receive/Transmit	All supported	All supported	No
RTCMv3	Receive	All supported	All supported	Yes
RTCMv3	Transmit	1Hz	All supported	Yes
RTCMv3	Transmit	2Hz and higher	PCCGMSK TRIMTALK	No
RTCMv3	Transmit	2Hz and higher	SATEL PCC4FSK PCCFST	Yes

Starting September 20th, 2021, all new shipments of the affected products are using the new Satel TR4+ UHF modem.

For additional information on this topic, please contact the product manager:
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