

Application Note:

PNT-SG4FM
Firmware Load Options

Intellectual Property

© 2024 Lantronix, Inc. All rights reserved. No part of the contents of this publication may be transmitted or reproduced in any form or by any means without the written permission of Lantronix.

Lantronix is a registered trademark of Lantronix, Inc. in the United States and other countries.

Patented: <https://patents.lantronix.com/>; additional patents pending.

All trademarks and trade names are the property of their respective holders.

Contacts

Lantronix, Inc.

48 Discovery, Suite 250
Irvine, CA 92618, USA

Toll Free: 800-526-8766
Phone: 949-453-3990
Fax: 949-453-3995

Technical Support

Online: <https://www.lantronix.com/technical-support/>

Sales Offices

For a current list of our domestic and international sales offices, go to the Lantronix web site at <https://www.lantronix.com/about-us/contact/>.

Disclaimer

All information contained herein is provided “AS IS.” Lantronix undertakes no obligation to update the information in this publication. Lantronix does not make, and specifically disclaims, all warranties of any kind (express, implied, or otherwise) regarding title, non-infringement, fitness, quality, accuracy, completeness, usefulness, suitability, or performance of the information provided herein. Lantronix shall have no liability whatsoever to any user for any damages, losses and causes of action (whether in contract or in tort or otherwise) in connection with the user’s access or usage of any of the information or content contained herein. The information and specifications contained in this document are subject to change without notice.

Revision History

Date	Rev.	Comments
October 2024	A	Initial release.

For the latest revision of this product document, please check our online documentation at <https://www.lantronix.com/support/documentation/>.

PNT-SG4FM Firmware Load Options

The PNT-SG4FM can support several different firmware based on application needs. Each firmware can address different applications and use cases.

Firmware can be installed using the Teseo Suite PC software, available at <https://www.st.com>.

STA8041_LIV4F_PVT_STD

This is the standard firmware preinstalled on the PNT-SG4FS.

- Supports the following GNSS constellations: GPS, Galileo, GLONASS, BeiDou, QZSS
- Accepts RTCM MSM7 message correction data from the host
- Suggested for most applications

STA8041_LIV4F_PVT_IRNSS

This is secondary firmware available for the PNT-SG4FS.

- Supports the following GNSS constellations: GPS, Galileo, IRNSS, BeiDou, QZSS
- Suggested for applications addressing the Indian market thanks to the inclusion of the Indian constellation (IRNSS)

STA8041_LIV4F_PVT_MSM1

This is secondary firmware available for the PNT-SG4FS.

- Supports the following GNSS constellations: GPS, Galileo, GLONASS, BeiDou, QZSS
- Accepts RTCM MSM1 message correction data from the host
- Suggested for applications where correction assistance data provided on the MSM1 protocol is available for the final application

STA8041_LIV4F_ME_STD

This is secondary firmware available for the PNT-SG4FS.

- Supports the following GNSS constellations: GPS, Galileo, GLONASS, BeiDou, QZSS
- Promotes the PNT-SG4FM as measurement GNSS engine, allowing the transmission of RTCV v3 correction data
- Suggested when an RTK algorithm is running on the host