

Application Note:

PNT-SG4FM
Firmware Load Options

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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

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Revision History

Date	Rev.	Comments
October 2024	A	Initial release.
December 2024	B	Updated firmware filenames.

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_PVT_STD

This is the standard firmware preinstalled on the PNT-SG4FM.

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

STA8041_PVT_IRNSS

This is secondary firmware available for the PNT-SG4FM.

- 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_PVT_MSM1

This is secondary firmware available for the PNT-SG4FM.

- 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_ME_STD

This is secondary firmware available for the PNT-SG4FM.

- 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