

FX30 13.1.3.001 Release Notes

Compatibility

Hardware

Release 13.1.3.001 is compatible with all Sierra Wireless FX30 and FX30S 3G Programmable IoT Gateway commercial units. This release is not compatible with FX30 early samples with serial numbers starting with LLxxx and xxx < 629.

Compatibility with Developer Studio

The FX30 target is not available on Developer Studio. However a Legato application can be developed for the WP8548 target and loaded into an FX30/FX30S unit.

Do not use Developer Studio to:

- rebuild the full Legato Application Framework and load it into an FX30/FX30S unit
- upgrade FX30/FX30S firmware.

Yocto Kernel custom build is not available for FX30/FX30S R13.1.3.001.

Build contents

The fwupdate query command will return the following results:

Firmware Version	SWI9X15Y_07.11.22.00 r33729 CARMD-EV-FRMWR1 2017/01/11 18:04:06
Bootloader Version	SWI9X15Y_07.11.22.00 r33729 CARMD-EV-FRMWR1 2017/01/11 18:04:06
Linux Version	3.14.29ltsi-a00e464379_c5f87a778d #2 PREEMPT Wed Apr 19 15:36:04 PDT 2017
FX30 Version	R13.1.3.001

This firmware is based on WP8548 Release 13.1. For more information, see the [Release 13.1 Customer Release Notes](#).

New Features

AirVantage

FX30S is supported on AirVantage with this release.

Security

As with the previous release (R13.1.2.004), an “aggressive nagger” forces changing the root password at first ssh connection. The firewall is configured to block all incoming traffic other than ICMP and DNS replies on ETH and WWAN interfaces. Firewall rules can be modified in the /etc/iptables.rules file.

USB is the preferred “console” interface for AT and SSH (192.168.2.2)

Bug Fixes

Resolved an issue where FX30S-specific AT!FWD commands returned ERROR

Resolved an issue where the FX30S RS485 termination resistor was active even when the serial port was configured in RS232 mode. The RS485 termination resistor is now disabled by default. Users can enable/disable the RS485 termination resistor through sysfs.

Known Limitations

The FX30S does not support RS232 H/W flow control

Upgrade Procedures

Local Upgrade

SSH on USB:

1. Copy mcu-rmfw-boot-yocto-legato_wp85.cwe to the FX30 filesystem using scp.
2. Open an SSH session.
3. Execute **fwupdate download mcu-rmfw-boot-yocto-legato_wp85.cwe** .

Remote Upgrade

Using AirVantage.