



WP76xx R16.0.1

Customer Release Notes



SIERRA
WIRELESS®

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Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless product are used in a normal manner with a well-constructed network, the Sierra Wireless product should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless product, or for failure of the Sierra Wireless product to transmit or receive such data.

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Revision History

Revision number	Release date	Changes
1.0	November 2021	Creation

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>> 1: Introduction

This document describes WP76xx firmware releases. These release notes may be distributed to all direct and indirect customers.

Compatibility

Hardware Compatibility

Product compatibility list
WP7601 - LTE Cat-4, LTE bands 4/13
WP7601-1 - LTE Cat-1, LTE bands 4/13
WP7603 - LTE Cat-4, LTE bands 2/4/5/12, WCDMA bands 2/4/5
WP7603-1 - LTE Cat-1, LTE bands 2/4/5/12, WCDMA bands 2/4/5
WP7605 – LTE Cat-4, LTE bands 1/3/8/11/18/19/21, WCDMA bands 1,6,19
WP7605-1 – LTE Cat-1, LTE bands 1/3/8/11/18/19/21, WCDMA bands 1,6,19
WP7607 - LTE Cat-4, LTE bands 1/3/7/8/20/28, WCDMA bands 1/8, GSM900/1800
WP7607-1 - LTE Cat-1, LTE bands 1/3/7/8/20/28, WCDMA bands 1/8, GSM900/1800
WP7608 - LTE Cat-4, LTE bands 1/3/5/8/40/41(partial) WCDMA bands 1/8, GSM900/1800
WP7608-1 - LTE Cat-1, LTE bands 1/3/5/8/40/41(partial) WCDMA bands 1/8, GSM900/1800
WP7609 - LTE Cat-4, LTE bands 1/3/5/7/8/28, WCDMA bands 1/5/8, GSM900/1800
WP7610 - LTE Cat-4, LTE bands 2/4/5/12/13/14/17/66, WCDMA bands 2/4/5
WP7611 – LTE Cat-4 LTE bands 2/4/5/12/13/14/25/26/66/71, WCDMA bands 2/4/5
WP7611-1 – LTE Cat-1, LTE bands 2/4/5/12/13/14/25/26/66/71, WCDMA bands 2/4/5

>> 2: SWI9X07Y Release 16.0.1

Release 16.0.1 is a point release to Release 16.0 with minor updates of alternate memory drivers for WP7601/WP7601-1, WP7603/WP7603-1, WP7607/WP7607-1, WP7610, and WP7611/WP7611-1.

Software Release Description

Release Identification

Component	Revision
Modem Firmware	SWI9X07Y_02.35.02.00 000000 jenkins 2019/11/07 01:30:36 (T-Mobile) SWI9X07Y_02.37.00.00 6c0fe9 jenkins 2020/01/17 01:29:47 (AT&T) SWI9X07Y_02.37.02.00 cb9476 jenkins 2020/03/17 09:04:38 (Sprint) SWI9X07Y_02.37.03.00 73df45 jenkins 2020/04/08 10:59:14 (Generic, Sierra) SWI9X07Y_02.37.06.00 b91e64 jenkins 2020/06/02 00:54:15 (Verizon)
Linux Firmware	SWI9X07Y_02.37.10.00 2021-08-03_08:28:41
MCU Firmware	002.015 (embedded as a binary in the Linux image, not applicable for modules without embedded MCU)
Legato Application Framework	19.11.2_4ad011d85a76309438be40fc19e7153a
Binary Size	60.8MB (compressed one-click Generic exe)
IMEI SV	10 (SWI9X07Y_02.35.02.00) 11 (SWI9X07Y_02.37.00.00, SWI9X07Y_02.37.02.00) 14 (SWI9X07Y_02.37.03.00) 15 (SWI9X07Y_02.37.06.00)
Qualcomm Stack Version	MDM9607.LE.2.0-00182-STD.PROD-1.264397.2
Linux Kernel Version	Linux version 3.18.140 (oe-user@oe-host) (gcc version 7.3.0 (GCC)) #1 PREEMPT Tue Aug 3 08:17:34 UTC 2021
Supported H/W	WP7601[-1], WP7603[-1], WP7607[-1], WP7610, WP7611[-1]

Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Windows SDK	None
Skylight	None
Linux Drivers	S2.42N2.63
Linux SDK	SLQS04.00.26

*Available in <https://source.sierrawireless.com>

Released Files

File	Carrier	Modem Firmware	Config	Linux Distribution	Base Legato System	Comment
WP7601/WP7601-1 Approved Packages						
WP76xx_Release16 .0.1_VERIZON.exe	Verizon	SWI9X07Y_02.37.06.00	002.107_003	SWI9X07Y_02.37.10.00	19.11.2	Verizon approved
WP76xx_Release16 .0.1_GENERIC.exe	GENERIC	SWI9X07Y_02.37.03.00	002.095_003	SWI9X07Y_02.37.10.00	19.11.2	PTCRB approved
WP7603 / WP7603-1 Approved Packages						
WP76xx_Release16 .0.1_ATT.exe	ATT	SWI9X07Y_02.37.00.00	002.098_003	SWI9X07Y_02.37.10.00	19.11.2	AT&T approved
WP76xx_Release16 .0.1_GENERIC.exe	GENERIC	SWI9X07Y_02.37.03.00	002.095_003	SWI9X07Y_02.37.10.00	19.11.2	PTCRB approved
WP76xx_Release16 .0.1_SIERRA.exe	SIERRA	SWI9X07Y_02.37.03.00	001.060_003	SWI9X07Y_02.37.10.00	19.11.2	Sierra R2C approved
WP7607 / WP7607-1 Approved Packages						
WP76xx_Release16 .0.1_GENERIC.exe	GENERIC	SWI9X07Y_02.37.03.00	002.095_003	SWI9X07Y_02.37.10.00	19.11.2	GCF approved
WP76xx_Release16 .0.1_SIERRA.exe	SIERRA	SWI9X07Y_02.37.03.00	001.060_003	SWI9X07Y_02.37.10.00	19.11.2	Sierra R2C approved
WP7610 Approved Packages						
WP76xx_Release16 .0.1_ATT.exe	ATT	SWI9X07Y_02.37.00.00	002.098_003	SWI9X07Y_02.37.10.00	19.11.2	AT&T approved
WP76xx_Release16 .0.1_VERIZON.exe	Verizon	SWI9X07Y_02.37.06.00	002.107_003	SWI9X07Y_02.37.10.00	19.11.2	Verizon approved
WP76xx_Release16 .0.1_GENERIC.exe	GENERIC	SWI9X07Y_02.37.03.00	002.095_003	SWI9X07Y_02.37.10.00	19.11.2	PTCRB approved
WP76xx_Release16 .0.1_SIERRA.exe	SIERRA	SWI9X07Y_02.37.03.00	001.060_003	SWI9X07Y_02.37.10.00	19.11.2	Sierra R2C approved
WP7611 / WP7611-1 Approved Packages						
WP76xx_Release16 .0.1_ATT.exe	ATT	SWI9X07Y_02.37.00.00	002.098_003	SWI9X07Y_02.37.10.00	19.11.2	AT&T approved
WP76xx_Release16 .0.1_VERIZON.exe	Verizon	SWI9X07Y_02.37.06.00	002.107_003	SWI9X07Y_02.37.10.00	19.11.2	Verizon approved
WP76xx_Release16 .0.1_GENERIC.exe	GENERIC	SWI9X07Y_02.37.03.00	002.095_003	SWI9X07Y_02.37.10.00	19.11.2	GCF & PTCRB approved

WP76xx_Release16 .0.1_SIERRA.exe	SIERRA	SWI9X07Y_02.37. 03.00	001.060 _003	SWI9X07Y_02.37.10.00	19.11.2	Sierra R2C approved
WP76xx_Release16 .0.1_SPRINT.exe	SPRINT	SWI9X07Y_02.37. 02.00	001.027 _003	SWI9X07Y_02.37.10.00	19.11.2	Sprint approved
WP76xx_Release16 .0.1_TMO.exe	TMO	SWI9X07Y_02.35. 02.00	001.017 _001	SWI9X07Y_02.37.10.00	19.11.2	TMO approved

Function	Files
Firmware components	9999999_9907152_SWI9X07Y_02.37.03.00_00_GENERIC_002.095_003.spk 9999999_9907255_SWI9X07Y_02.37.06.00_00_VERIZON_002.107_003.spk 9999999_9907256_SWI9X07Y_02.37.00.00_00_ATT_002.098_003.spk 9999999_9908787_SWI9X07Y_02.37.03.00_00_SIERRA_001.060_003.spk 9999999_9909268_SWI9X07Y_02.35.02.00_00_TMO_001.017_001.spk 9999999_9909269_SWI9X07Y_02.37.02.00_00_SPRINT_001.027_003.spk linux-SWI9X07Y_02.37.10.00.cwe legato-19.11.2.cwe
Available in https://source.sierrawireless.com .	

Software Changes Description

The second memory source changes are included in Release 16.0.1, built from Release 16.

Table 2-1: Software Changes Description for WP76xx Release 16.0.1

ID	Description	Impacted Domain
QT19X07-5444	Add the IDs of these alternate memory sources: New Micron/ESMT/JSC	System
QT19X07-5464	Exclude the legato.cwe from ant-rollback fw download	
QT19X07-5524	Implement the anti-rollback mechanism to prevent from downgrading to the firmwares in which alternate memory sources (New Micron/ESMT/JSC) are not supported	

Known Issues

The following table presents the known issues in this release.

Table 2-2: Known Issues for WP76xx Release 16.0.1

ID	Description	Impacted Domain
QT19X07-3655	Firmware update using xmodem protocol over USB modem interface is not successful. Firmware installation eventually failed after the firmware was successfully downloaded. This issue has been fixed in modem firmware SW19X07Y_02.37.07.00, but this modem firmware is not included in any firmware release packages.	System
QT19X07-4942	On Linux Android platform, while data call is active, USB connection disconnected momentarily while USB suspend/resume is enabled.	USB
QT19X07-4912	With R2C SIM V5.x, EF_OPLMNwAct has not taken into account after SIM REFRESH	R2C
QT19X07-4928	Customers' le_mrc API calls for any operations regarding preferred cellular operator, like getting, adding and removing, would fail with the error "unsupported".	Legato
LE-8872	The value of object /7/0/0 (SMS Tx counter) is not updated when using AT Command to send SMS.	Legato

>> A: Appendix

List of Abbreviations

Abbreviation /Acronym	Definitions
AT	Access Terminal, Attention
CS	Circuit Switched
EDL	Emergency Download
FDT	Firmware Download Tool
GCF	Global Certification Forum
LK	Little Kernel Linux bootloader
MCU	Microcontroller Unit – An onboard MCU enables Ultra Low Power modes of operation
MR	Maintenance Release
PSM	Power Saving Mode
QMI	Qualcomm Messaging Interface
SDP	Software Download Protocol
ULPM	Ultra Low Power Mode

List of References

1. WP76xx - Product Technical Specification
Reference number: 4119652
2. WPx5xx-76xx-77xx AT Command Reference
Reference number: 4118047
3. WP Series - Preparing Your Devices for Deployment
Reference number: 41110380
4. WPX5-76-77 Scalability Guide
Reference number: 41110866
5. WP Series - Secure Boot
Reference number: 41112164