



Firmware L10_ Customer Release Note

AirPrime WISMO228



SIERRA
WIRELESS

WA_DEV_W228_CRN_008
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Important Notice

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 modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem 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 modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

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6,191,741	6,199,168	6,339,405	6,359,591	6,400,336	6,516,204	6,561,851	6,643,501
6,653,979	6,697,030	6,785,830	6,845,249	6,847,830	6,876,697	6,879,585	6,886,049
6,968,171	6,985,757	7,023,878	7,053,843	7,106,569	7,145,267	7,200,512	7,295,171
7,287,162	D442,170	D459,303	D599,256	D560,911			

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Consult our website for up-to-date product descriptions, documentation, application notes, firmware upgrades, troubleshooting tips, and press releases: www.sierrawireless.com

Document History

Version	Date	Updates
001	November 03, 2009	Creation
002	November 11, 2009	Official name for PTCRB certification
003	June 10, 2010	GCF-CC and PTCRB version update
004	June 11, 2010	Validated Corrections/Improvements section update



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1. Introduction

1.1. Scope of this Document

The scope of this document is the firmware L10_ release description for AirPrime WISMO228.

1.2. Audience of this Document

This release note may be distributed to all direct and indirect customers and will be posted on the corporate web site under the Support/Private area.

1.3. Release Feature List

For more details on these features please refer to section 7 Feature Description.

1.3.1. Main Features Reminder

Features List
GSM/GPRS class 10 capable wireless standard modem
850/900/1800/1900 MHz quad-band
AT commands interface on UART port
Debug interface on SPI bus
User configurable GPIOs
Audio features
AT&T features
TCP/IP AT commands

1.3.2. New Features/Evolutions

Features List



2. Related Documents

- [1] WISMO228 AT Commands Manual
WA_DEV_W228_UGD_004
- [2] WISMO228 TCP/IP AT Commands Manual
WA_DEV_W228_UGD_002
- [3] WISMO228 - Product Technical Specification and Customer Design Guideline
WA_DEV_W228_PTS_002
- [4] Adwl-Light Downloader User Guide
WA_DEV_WISMO_UGD_005



3. Abbreviations and Definitions

Abbreviation/Acronym	Description
AT	Attention
CSD	Circuit Switched Data
DCE	Data Circuit Equipment
DTE	Data Terminal Equipment
GPIO	Global Purpose Input Output
GPRS	Global Packet Radio Service
HLR	Home Location Register
ME	Mobile Equipment
MS	Mobile Station
PDP	Packet Data Protocol
PIN	Personal Identification Number
PLMN	Public Land Mobile Networks
SIM	Subscriber Information Module
TE	Terminal Equipment
UART	Universal Asynchronous Receiver Transmitter

»» | 4. Hardware Compatibility

4.1. Sierra Wireless Standard Modem Compatibility

Firmware Version	Sierra Wireless Standard Modem Compatibility List
L10_	AirPrime WISMO228



5. Software Release Description

5.1. Release Identification

Sierra Wireless Standard Modem – AirPrime WISMO228	
Date of Generation	November 03, 2009
Software Identification	L10_00gg.WISMO228 32/16Mbits
IMEISV	012345678901237 01
Checksum	0xCA4C528F
Binary Size	2637720
Flash Type	32/16 Mbits

5.2. Released Files and Download Processes

As this Firmware includes the Security System, which locks the embedded software to the hardware of the AirPrime WISMO228, the download must be done by Sierra Wireless only.

For any reason, the same firmware L10_ should be downloaded on the AirPrime WISMO228, the download procedure is shown in document [4] Adwl-Light Downloader User Guide.

5.3. Software Tools Version

This section gives the last tools versions to be used with AirPrime WISMO228.

Software Tools Name	Version
Adwl-Light Downloader	5.3.3.3a
SpyTracerV2	2.7.2

6. Software Description

The *Severity* values have the following meaning:

- 1 : Critical
- 2 : Major
- 3 : Minor
- 4 : Improvement

6.1. Validated Corrections / Improvements

This section gives the list of all corrections or improvements integrated in the firmware L10_.

ID	Description (What/When)	Customer Impact	Severity*
ANO55819	[WISMO228] GPRS connection is not successful through Window dial-up when using the CMUX port	GPRS connection failed with CMUX port	1
ANO56242	AT&T: Incorrect PNN short name	PNN short name displayed incorrectly	1
ANO56267	[WISMO228][Regression] Module Hanged when NO SIM card inserted OR SIM card inserted with PIN code enabled	Module hanged w/o SIM card / PIN code enable	1
ANO56268	PTCRB: NITZ information not displayed after routing area update	NITZ information missing	1
ANO56269	PTCRB: NITZ PLMN name not displayed after Switch Off/On	PLMN name didn't display	1
ANO56270	AT&T:[REG] MS reset when reselecting neighboring cell	Module reset during cell switching	1
ANO56304	[WISMO228] When testing GPRS related commands, the module seems rebooting by itself. By using the SpyTracer, the "TimeStamp" shows the module reboots randomly.	Module rebooted intermittently	1

6.2. Integrated but Not Validated Corrections/Improvements

ID	Description (What/When)	Customer Impact	Severity*
None			

6.3. Known Problems

ID	Description (What / When)	Severity*
ANO54815	AT+CPOL, 4 syntax issues	3
ANO54852	AT+VGR, no sidetone on init	1
ANO55179	ATV extra \r\n and \n	3

ID	Description (What / When)	Severity*
ANO55385	Unexpected unsolicited response and incorrect CME ERROR code when connect bearer with invalid APN	3
ANO55437	CMUX, when using Wavecom CMUX software tool, the module hang when module is in sleep mode.	2
ANO55453	Unable to transfer text file through TCP/IP	1
ANO55516	CFUN: CREG value is not correct after the module is powered on	3
ANO55574	CPBR: Return +CME ERROR: 22 when read the empty record (copy from ANO54207)	3
ANO55598	AT+CGCLASS (1)Only "B", "CC" should be supported (2)After change to "CC", +CGREG state not changed	3
ANO55631	TCP/IP: UDP session, unable to send out text (ASCII) file (100kbytes)	1
ANO55649	UDP session: WISMO228 is unable to receive any data under unmapped mode	2
ANO55686	CPIN: Incorrect CME ERROR number is displayed for invalid length of PUK code	3
ANO55718	AT+CGACT, <state> is a must parameter, <cid> is an optional parameter which can be omitted	3
ANO55741	CGCMOD: Return OK with some syntax errors	3
ANO55825	+CGREG indication is not updated in NMO1 cell for the 1st time GPRS attach after reset	2
ANO55874	PSMBNB: Cannot set mailbox number for each lineID	3
ANO55890	AT+VTS, <duration> does not work, no different for the tone duration	3
ANO55906	AT*PSCSCN, URC "*PSCSC" still returned by module even if *PSCHRU is set to disable that URC	3
ANO55915	AT*PSCCDN, (1)"AT*PSCCDN=?" returns wrong info;(2)<call id> 1 is missed after ATH of multiparty call	3
ANO56039	PSSTK: Response is blocked when use invalid itemIdentifier in "MENU SELECTION"	3
ANO56046	PSSTK: Cannot return correct "YES/NO" response from "GET INKEY" command	3
ANO56050	+WIPPING makes module hang in some scenario	1
CUS56153	+CUSD response returns HEX instead of ASCII on Vodacom Network	3
ANO56222	+WIPPING do not fully implement, not support: <repeat>,<interval>,<timeout>,<nwrite>,<ttl>	2
CUS56204	Audio level almost totally lowered when AEC is enabled with AT+WMECHO=1,0	1
ANO56244	Local IP address do not reset to 0.0.0.0 after stop bearer	2
ANO56253	CMUX, when module set to HW flow control, Hyper Terminal cannot connect after using MUX Tool	2
ANO56281	AMR ISSUE : SHORT MUTE DURING HANDOVER TO OTHER CODECS (EFR / FR / HR)	1
ANO56300	CMGL: extra line is returned when listing the records	3
ANO56302	CMGL: Cannot list all "UNREAD" messages once	3
ANO56305	ATQ, "OK" is not suppressed in +CFUN	3
ANO56305	AT+IPR, (1)when in auto detection,character display wrong on the hyperterminal,(2)+IPR=? not correct	3
ANO56306	ATS7, S7 should be 100 after AT&F, not 50	3
ANO56310	CACM: Incorrect reponse is returned for "AT+CACM"	3
ANO56327	PBCH issue	1
ANO56328	Enhanced measurement report does not contain the cell having different BSIC	1
ANO56329	Manual selection can't be made after recovery of coverage	1

ID	Description (What / When)	Severity*
ANO56323	CPUC: Incorrect currency unit is returned	3
ANO56325	PSSTKI: The display of supported <mode> values do not correct	3

6.4. Other Interface Changes

Some other changes have been performed on the following commands. Please refer to document [1] WISMO228 AT Commands Manual for more information.

6.4.1. New AT Commands

This part lists the commands that have been added in the firmware L10_. For more information, refer to the command description in document [1] WISMO228 AT Commands Manual and [2] WISMO228 TCP/IP AT Commands Manual.

Command	Comment
NONE	

6.4.2. Updated AT Commands

This part lists the commands that have been modified in the firmware L10_. For more information, refer to the command description in document [1] WISMO228 AT Commands Manual.

Command	Comment
NONE	

6.4.3. Deprecated AT Commands

This part lists the commands that are no more available in the firmware L10_.

Command	Comment
NONE	



7. Feature Description

This section normally lists the features added to the L10_ firmware.

8. Certification Description

8.1. GCF-CC & PTCRB

The following table summarizes the certifications passed for this software version.

	GCF-CC	NAPRD.03
AirPrime WISMO228	v3.34.0	v4.4



9. Additional Information/Restrictions

This section lists additional information or restrictions that must be taken into account regarding the firmware L10_.

ID	Description (What/When)	Impacted Domain	Impacted Sub-Domain
NONE			



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