



# WISMO228 Firmware B11d00gg Customer Release Note

## WISMO228 Wireless Standard MOdem

WA\_DEV\_W228\_CRN\_006  
001  
October 06, 2009

## 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.

## Safety and Hazards

Do not operate the Sierra Wireless modem in areas where blasting is in progress, where explosive atmospheres may be present, near medical equipment, near life support equipment, or any equipment which may be susceptible to any form of radio interference. In such areas, the Sierra Wireless modem **MUST BE POWERED OFF**. The Sierra Wireless modem can transmit signals that could interfere with this equipment. Do not operate the Sierra Wireless modem in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Sierra Wireless modem **MUST BE POWERED OFF**. When operating, the Sierra Wireless modem can transmit signals that could interfere with various onboard systems.

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*Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Sierra Wireless modems may be used at this time.*

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## Document History

Version	Date	Updates
001	October 06, 2009	Creation

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# >> 1. Introduction

## Scope of this Document

The scope of this document is the WISMO228 Firmware B11d00gg release description for Sierra Wireless WISMO228 Wireless Standard Modem.

## 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.

## Release Feature List

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

## 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

## New Features/Evolutions

Features List

## >> 2. Related Documents

- [1] WISMO228 AT Commands Manual  
WA\_DEV\_W228\_UGD\_004
- [2] WISMO228 - Product Technical Specification and Customer Design Guideline  
WA\_DEV\_W228\_PTS\_002
- [3] 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

### Sierra Wireless Standard Modem Compatibility

Firmware Version	Sierra Wireless Standard Modem Compatibility List
B11d00gg	WISMO228

## >> 5. Software Release Description

### Release Identification

Sierra Wireless Standard Modem – WISMO228	
Date of Generation	September 28, 2009
Software Identification	B11d00gg.WISMO228 32/16Mbits
IMEISV	00440176902194 01
Checksum	0x7B589F97
Binary Size	2611092
Flash Type	32/16 Mbits

### Released Files and Download Processes

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

For any reason, the same firmware B11d00gg should be downloaded again on the WISMO228, the download procedure is shown in document [3] Adwl-Light Downloader User Guide.

### Software Tools Version

This section gives the last tools versions to be used with 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

### Validated Corrections / Improvements

This section gives the list of all corrections or improvements integrated in the firmware B11d00gg.

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

### Integrated but Not Validated Corrections / Improvements

ID	Description (What/When)	Customer Impact	Severity*
ANO54269	[WISMO218] AT+CGEREP, (1) wrong +CGEV events returned. (2) What +CGEV events are supported?	Incorrect response	2
ANO54717	[WISMO218 SMS] CMGR: Response is blocked when send and receive PDU sms many times	No response	2
ANO54813	[WISMO218] Difficult to establish Data Call on "New World" operator SIM Card.	Hard to make data call using New-World SIM card	3
ANO54822	[WISMO218] AT+CPWC, in a dual band module, why it support bands and classes as a Quad Band module?	Incorrect response in dual band mode when the module is in quad band	3
ANO54924	[WISMO218 CallCtrl] CSTA: phone number without "+" can be established when international type is selected	Incorrect display	2
ANO54928	[WISMO218] AT+CRSM, with ReadBinary command, the data returned in the <response> is not completed.	Incomplete response	3
ANO54947	[WISMO218 CallCtrl] CBST: parameters cannot be restored by AT&F immediately	Default value could not restore	3

ID	Description (What/When)	Customer Impact	Severity*
ANO54965	[WISMO218] AT+CGQMIN,(1)After create new PDP, cannot read new PDP by +CGQMIN?; (2) Use +CGQMIN to undefined PDP, +CGQMIN? display wrong data or sometimes data missing	Incorrect response	3
ANO55005	[WISMO218 CallCtrl] CEER: PLMN not allowed issue cannot be displayed on CEER command	Incorrect error display	3
ANO55026	[WISMO218] AT+CGPADDR, (1)" +CGPADDR=" and "+CGPADDR", extra \r\n is present before OK; (2) After deactivate by CGACT, ie, AT+CGACT=0,1, the PDP Address is not reset.	PDP address had not been reset	2
ANO55027	[WISMO218] AT+CGSMS, (1) +CGSMS=? returns data not correct; (2)After +CFUN, the setting is always changed to 1	Setting had not been saved correctly	3
ANO55073	[WISMO218] AT+CFUN, after Radio off, and then AT&F and AT+CFUN=1,1 module does not turn on Radio again.	Incorrect restore of previous state after soft reboot	3
ANO55075	[WISMO218] AT+CGQMIN, "AT+CGQMIN=?" returns incorrect data	Incorrect response	3
ANO55121	[WISMO218] AT&F, CEER and CBST are not restored with default parameters	Default value could not restore	3
ANO55207	[WISMO218 SuppServ] COPN: Some problems are found in an operator list	Incorrect response	3
ANO55218	[WISMO218] AT+VTD, (1)List of supported VTD is not correct;(2)Parameter<n>is not optional, it cannot be omitted	Incorrect handling	3
ANO55219	[WISMO218] ATS2, It returns OK with invalid parameter, eg, ATS2=299, ATS2=555, ATS2=811	Incorrect response	3
ANO55256	[WISMO218 AUDIO] CMUT: Incorrect behavior is returned with invalid values	Incorrect response	3
ANO55304	[WISMO218] AT+FTH, Parentheses is missing for "AT+FTH=?"	Incorrect display	3
ANO55305	[WISMO218] AT+FRH, Parentheses is missing for "AT+FRH=?"	Incorrect display	3
ANO55346	[WISMO218 Ctrl&Status] CALA: one extra line is returned when the alarm list is empty	Incorrect display	3

ID	Description (What/When)	Customer Impact	Severity*
ANO55348	[WISMO218 Ctrl&Status] CALA: Problem is found when set "seconds" for alarm	Could not set 2 alarms at the same alarm time	3
ANO55356	[WISMO218 Ctrl&Status] CALA: Incorrect response is returned for invalid values	Incorrect response	3
ANO55357	[WISMO218] AT*PSALS, "at*psals=2" will hang with Peoples SIM card, and return "+CME ERROR: 3" with Smartone SIM card	Abnormal behaviors with different SIM card	2
ANO55358	[WISMO218 Ctrl&Status] CALD: Incorrect result is returned with invalid index values	Incorrect response	3
ANO55498	[WISMO228] AT&C, after "AT&C=1", DCD signal pin does not change to "0" in command mode	Module malfunction	3
ANO55508	[WISMO228] AT+CALA, when alarm is timed out and executed, the URC +CALV is shown, but +CALA is not shown.	+CALA did not response correctly	3
ANO55514	[WISMO228] AT+PSSREP, redundant parentheses for "AT+PSSREP=?"	Incorrect display	3
ANO55556	[WISMO228 Ctrl&Status] CLAC: Some commands are not displayed correctly in the list	Incomplete display	3
ANO55564	[WISMO228] AT+CMGW, <oa/da> field is not stored correctly into the memory	Input could not be saved	3
ANO55599	[WISMO228] AT&V,(1)"\r\n" is missing before "OK", (2)"\r\n" is missing before "0"	Incorrect display	3
ANO55697	[WISMO228] AT*PSENGI , <MNC> with 3 digits cannot be decoded correctly	2 digits could be used only	2
ANO55711	[WISMO228] AT*PSCHRU,(1)<mask>is 1,incoming call will auto answer(2)When receive call waiting call, module hang	Module malfunction	3
ANO55713	[WISMO228 SuppServ] CTFR: Cannot only use phone number to deflect the call	Call could not deflected	2
ANO55752	[WISMO228 AUDIO] ATL: Syntax error is found when the command without parameter	Syntax error	3
ANO55888	[WISMO228] AT+VTD, Tone Duration does not working.	No tone duration	3

## Known Problems

ID	Description (What / When)	Severity*
ANO54807	[WISMO218 Serial Interface] WISMO218: Incorrect behavior is returned after setting values	1
ANO54852	[WISMO218] Sidetone issues	2
ANO55061	[WISMO218 Network] CLCK: Activate lock is allowed when facility lock is already enabled	2
ANO55063	[WISMO218 Network] CLCK: Disable lock is allowed when the lock is already unlocked	2
ANO55074	[WISMO218 Network] CLCK: Incorrect status is returned after enabling "PU", "PN", "PP" lock	2
ANO55179	[WISMO218] ATV, extra \r\n for header of information responses, and extra "\n" after final result code of "0\r"	2
ANO55212	[WISMO228] After AT+COPS=2, "08" cannot be used as emergency number	2
ANO55249	[WISMO218 Ctrl&Status] CSIM: The action command does not work	1
ANO55276	[WISMO218 SuppServ] CPUC: Incorrect <ppu> value is returned after setting	2
ANO55437	[WISMO218] CMUX, when using Wavecom CMUX software tool, the module hang when module is in sleep mode.	2
ANO55516	[WISMO228 Ctrl&Status] CFUN: CREG value does not correct after the module is powered on	2
ANO55574	[WISMO228 PhoneBook] CPBR: Return +CME ERROR: 22 when read the empty record (copy from ANO54207)	2
ANO55605	[WISMO228 Serial_Interface] CMUX: Some values are returned incorrectly when setting <N1> values	2
ANO55819	[WISMO228] GPRS connection is not successful through Window dial-up when using the CMUX port	1
ANO55822	[WISMO228] GPRS connection with CMUX drops when Incoming call is received	1
ANO55825	[WISMO228] +CGREG indication is not updated in NMO1 cell for the 1st time GPRS attach after reset	2
ANO55831	[WISMO228] Cannot send/receive SMS Over GPRS when mobile and network configured in PS domain mode	1
ANO55874	[WISMO228 Ctrl&Status] PSMBNB: Cannot set mailbox number for each lineID	2

ID	Description (What / When)	Severity*
ANO55931	[WISMO228] 2 sleep mode issues	2

## 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.

### New AT Commands

This part lists the commands that have been added in WISMO228 B11d00gg. For more information, refer to the command description in document [1] WISMO228 AT Commands Manual.

Command	Comment
NONE	

### Updated AT Commands

This part lists the commands that have been modified in WISMO228 B11d00gg. For more information, refer to the command description in [1].

Command	Comment
NONE	

### Deprecated AT Commands

This part lists the commands that are no more available in WISMO228 B11d00gg.

Command	Comment
NONE	

## >> 7. Feature Description

This section normally lists the features added to B11d00gg firmware for WISMO228.

## >> 8. Certification Description

### GCF-CC & PTCRB

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

	GCF-CC	NAPRD.03
WISMO228	v3.33.0	N/A

## >> 9. Additional Information / Restrictions

This section lists additional information or restrictions that must be taken into account regarding the WISMO228 B11d00gg.

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