

Release Notes

Topic :	NINA-W131/NINA-W132 Software v0.9 Release Notes
	UBX-17039747
Author :	Erik Carlberg
Date :	3-Jul-2017

We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.

© 2017 u-blox AG

1 General Information

1.1 Released software image

Binary: NINA-W13X-SW0.9.0.8.bin
Bootloader: NINA-W13X-BOOT0.5.1.bin
Partition table: NINA-W13X-PARTITION0.9.0.8.bin
RF config: phy_init_data.bin

1.2 Released software tools

1.2.1 s-center v4.1.0

s-center supports the AT commands needed to operate and configure the NINA-W1. s-center also supports software updates from previous versions of the NINA-W1 modules.

2 Features

2.1 General support

- Wi-Fi station role supported.
- Wi-Fi access point role not supported.
- Some AT commands are only partly implemented and functionality could be missing. See section 2.2 for details.
- Secure boot is not implemented.
- Production parameters not stored, default values used.
- Baud rates up to 921600 are supported.

Radio configuration is not final and will be updated. This means output power will change in the later releases.

2.2 AT command support

The *u-blox Short Range Modules AT Commands Manual [1]* is not updated with information about supported AT commands in NINA-W131/132. The table below lists the relevant AT commands and known limitations. For detailed information about a specific command, please refer to the AT Commands Manual.

Command	Known limitations
General	
Attention	
Manufacturer identification +CGMI	
Model identification +CGMM	
Firmware version identification +CGMR	
Serial number +CGSN	No serial numbers set
Manufacturer identification +GMI	
Model identification +GMM	
Firmware version identification +GMR	
Serial number +GSN	No serial numbers set
Identification information I	No identification information set
Set greeting text +CSGT	
System	
Store current configuration &W	
Set to default configuration Z	
Set to factory defined configuration +UFACTORY	
Circuit 108/2 (DTR) behavior &D	
DSR Override &S	
Echo On/Off	
Escape character S2	
Command line termination character S3	
Response formatting character S4	
Backspace character S5	
Firmware update Over AT command (FOAT) +UFWUPD	
Module switch off +CPWROFF	
Module start mode +UMSM	
Local address +UMLA	
System status +UMSTAT	
RS232 Settings +UMRS	Min. baud rate 9600, Max. baud rate 3000000 Only 1 stop bit supported (same as for NINA-B1)
Data mode	
Enter data mode O	
Connect peer +UDCP	
Close peer connection +UDCPC	
Default remote peer +UDDRP	
Server configuration +UDSC	

Command	Known limitations
Server flags +UDSF	Not implemented
Watchdog settings +UDWS	
Configuration +UDCFG	
Wi-Fi	
Wi-Fi station configuration +UWSC	Authentication modes OPEN and WPA/WPA2 PSK supported. For WPA/WPA2 only passphrase is supported.
Wi-Fi station configuration action +UWSCA	
Scan +UWSCAN	Some authentication suites and ciphers are not correctly displayed in scan response. OPEN and WPA PSK are correctly displayed.
Channel list +UWCL	Not supported All supported channels are used for scan and connections
Network	
Network host name +UNHN	
Network status +UNSTAT	
GPIO	
GPIO Configuration +UGPIOC	Not implemented
Read GPIO +UGPIOR	Not implemented
GPIO Set value +UGPIOW	Not implemented

3 Known limitations

Area	Description	Workaround
General	S2, S3, S4, S5 registers are not reset by pressing restore serial settings button.	Perform a factory reset by pressing both switch 1 and 2 at reset to restore the default settings.
Wi-Fi	Device resets when Wi-Fi scan is initiated and device connects to AP.	Deactivate Wi-Fi (AT+UWSCA=0,4) before performing scan.
Wi-Fi	Channel list cannot be set.	
General	Identification and serial number cannot be read (+ATI, +CGSN, +GSN).	
General	Trash characters emitted during reset.	
Wi-Fi	Wi-Fi enterprise modes not supported.	
Wi-Fi	TCP keep alive timer is not deterministic.	
General	UART baud rate only verified up to 921600.	
General	During device reset, internal boot log is printed to serial interface.	On the EVK-NINA-W13x evaluation board, connect J16-19 to GND.
General	Entering boot mode does not set LEDs correctly.	

4 References

- [1] [u-blox Short Range Modules AT Commands Manual](#)