

EVK-LEXI-R520

LEXI-R520 cellular evaluation kit

User guide



Abstract

This guide explains how to set up the EVK-LEXI-R520 evaluation kit to begin evaluating the u-blox ultra-small LEXI-R520 modules based on the latest u-blox UBX-R52 cellular chipset, supporting multi-band LTE-M / NB-IoT cellular radio access technology and u-blox SpotNow A-GPS technology.





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1 Introduction

The EVK-LEXI-R520 kit is a powerful and easy-to-use tool that simplifies the evaluation of the u-blox LEXI-R520 multi-band LTE-M / NB-IoT cellular modules.

As shown in Figure 1, the EVK-LEXI-R520 evaluation kit is formed by three boards:

- The EVB-WL3 contains the power supply and other peripherals for the cellular module.
- The cellular adapter board, ADP-LEXI-R520, contains the LEXI-R520 cellular module and other connectors.
- The GNSS adapter board, ADP-GNSS, contains the u-blox MAX-M10S GNSS module, the GNSS antenna connector and the USB connector for the GNSS module.

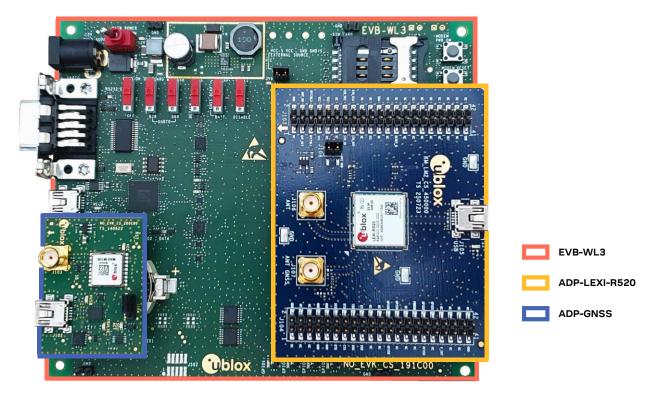


Figure 1: EVK-LEXI-R520 evaluation kit formed by three boards

- For more hardware details about the EVK-LEXI-R520 evaluation kit, see section 5.
- See the LEXI-R520 data sheet [2] and the LEXI-R520 system integration manual [3] for features supported by LEXI-R520 modules.



2 Board quick start

2.1 Board setup

2.1.1 SIM and antenna

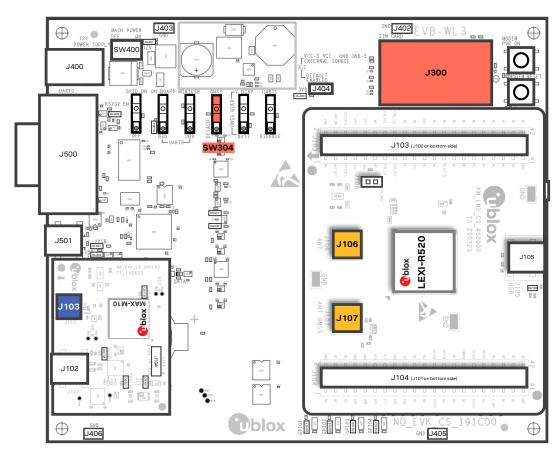


Figure 2: SIM and antenna set up

- 1. Insert a SIM card into J300, the SIM card holder.
- 2. Connect the cellular antenna provided with the EVK-LEXI-R520 evaluation kit box to **J106**, the cellular antenna SMA connector.
- 3. If positioning functionality is required:
 - a. For u-blox SpotNow A-GPS receiver functionalities, connect the GNSS antenna provided with the EVK-LEXI-R520 evaluation kit box to J107, the GNSS antenna SMA connector on ADP-LEXI-R520.
 - b. For u-blox MAX-M10 GNSS receiver functionalities, connect the GNSS antenna provided with the EVK-LEXI-R520 evaluation kit box to **J103**, the GNSS antenna SMA connector on ADP-GNSS, and keep the cellular GNSS detach switch **SW304** in "GNSS" position.

Place the GNSS / GPS antenna in a location with a good view of the sky.



2.1.2 Power supply

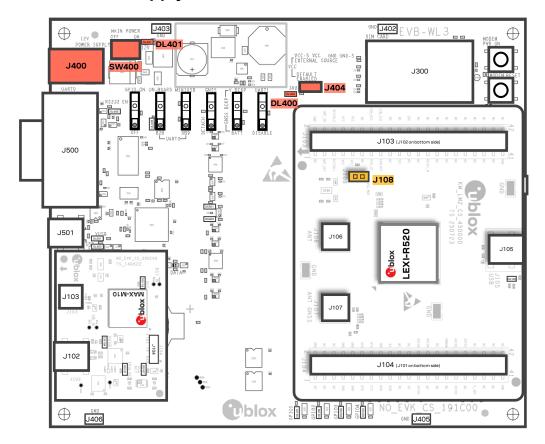


Figure 3: Power supply set up

- 1. Connect the AC/DC+12 V power supply adapter to **J400**, the 9 18 V power input connector; LED **DL401** light turns blue.
- 2. Provide a jumper socket on both ${\bf J404}$ and ${\bf J108}$, the cellular VCC supply jumpers.
- 3. Turn **SW400**, the main power switch, to the "ON" position; LED **DL400** light turns green and the cellular module switches on.



2.1.3 Local connectivity

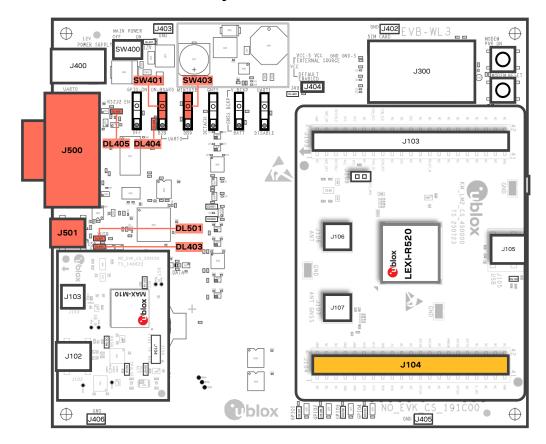


Figure 4: Local connectivity set up

For communication via the UART interfaces of the cellular module, the following connections are allowed and can be alternatively enabled in a mutually exclusive way (see Table 1 for switches and jumper position and LED status):

- a. Connect a USB cable to J501 mini-USB connector, so-called cellular USB main UART connector: the LED DL501 light turns blue. When a USB cable is connected to this mini-USB connector, two COM ports are enabled in Windows: the main 8-wire UART interface of the cellular module is available over the first COM port opened by the driver, after the end of the module boot, once the module is switched on.
- b. Connect an RS232 cable to **J500** DB9 connector, so-called cellular RS232 main UART connector: the main 8-wire UART interface of the cellular module is available over RS232, after the end of the module boot, once the module is switched on.

Type of connections	SW401	SW403	LED
Access to the main UART interface over J501 (EVB-WL3)	ON BOARD	MINIUSB	DL403 DL501
Access to the main UART interface over J500 (EVB-WL3)	ON BOARD	DB9	DL405
Access to UART interface(s) over J104 (ADP-LEXI-R520)	B2B	Do not care	DL404

Table 1: Serial interface configuration



See the data sheet [2] and the +USIO AT command description in the AT commands manual [1] for the description and configuration of the USIO variants.



Run an AT terminal application (such as the u-blox m-center tool) selecting the AT port, with these settings:

Data rate	Data bits	Parity	Stop bits	Flow control
115200 bit/s	8	N	1	HW

See appendix A for how to download, configure and use the u-blox m-center AT terminal for Windows.

2.2 Switch off the board

To switch off the LEXI-R520 module in the EVK-LEXI-R520, send the +CPWROFF AT command.



Issue AT+CPWROFF command before switching off the main power supply of the EVK-LEXI-R520 by turning the **SW400** main power switch to the "OFF" position (see Figure 3), otherwise settings and configuration parameters may not be saved in the non-volatile memory of the cellular module.



3 Register to network

3.1 Enabling error result codes

Command sent by DTE (user)	DCE response (module)	Description		
AT+CMEE=2	OK	Enable the cellular module to report verbose error result codes.		

3.2 PIN code insertion (when required)

Command sent by DTE (user)	DCE response (module)	Description			
AT+CPIN="8180"	OK	Enter the PIN code, if needed (enter the PIN of the SIM card – 8180 is an example).			
AT+CLCK="SC",0,"8180"	OK	Unlock the PIN at power-on (the last parameter is the PIN of the SIM card – 8180 is an example).			
AT+CLCK="SC",1,"8180"	OK	Lock the PIN at power-on (the last parameter is the PIN of the SIM card – 8180 is an example).			

3.3 Registration on a cellular network

Command sent by DTE (user)	DCE response (module)	Description
AT+CREG?	+CREG: 0,1	Verify the CS network registration.
	OK	
AT+CEREG?	+CEREG:	Verify the EPS network registration.
	0,1,"5684","03761b14",7	
	OK	
AT+COPS=0	OK	Register the module on the network.
		The cellular module automatically registers itself on
		the cellular network. This command is necessary only if
		the auto-registration failed (AT+CREG? returns 0,0).
AT+COPS?	+COPS: 0,0,"I TIM",7	Read the operator name and radio access technology
	OK	(RAT).



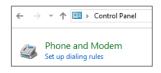
4 Setting up data connection on Windows

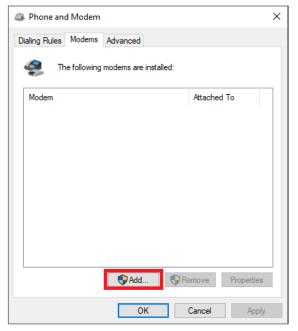
This section describes how to set up a cellular packet data connection on Windows 10 using the operating system's TCP/IP stack and EVK-LEXI-R520. This is also referred to as a dial-up connection.

4.1 Install a new modem from the control panel

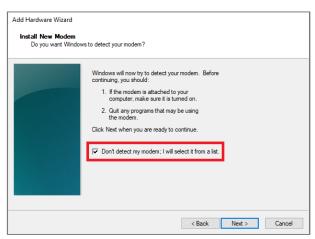
 From Control Panel, select Phone and Modem > Modems > Add.

This opens the Add Hardware Wizard.



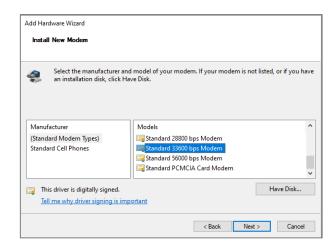


2. Tick "Don't detect my modem" checkbox. Click **Next**.

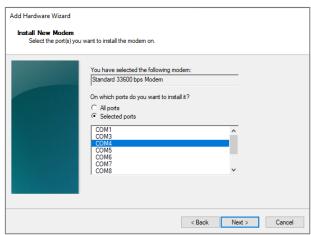




Select Standard 33600 bps Modem. Click Next.

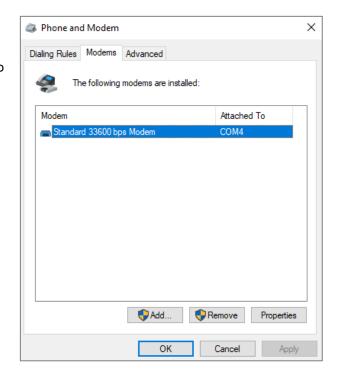


- Select COM port for data communication and click Next. The modem will be installed on this COM port.
- 5. Click **Finish** to complete the installation.



Now the new modem is visible in Control Panel, under Phone and Modem > Modems.

Any extra initialization AT command (e.g., to set a specific APN name) can be entered by selecting **Properties** and filling in **Advanced** > **Extra initialization commands** text box.



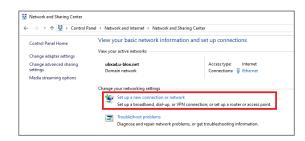
Now the module is ready and the connection can be configured.

The modem configuration can also be edited in **Device Manager**, by clicking on the modem name.

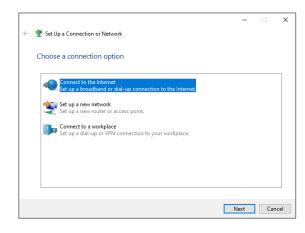


4.2 Configuring a new connection

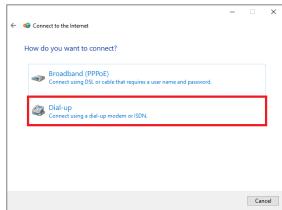
1. From Control Panel, select Network and Sharing Center > Set up a new connection or network.



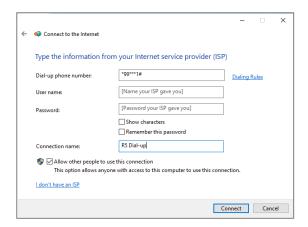
2. Click Connect to the Internet and then Next.



3. Select **Dial-up** and, if requested, the modem previously installed.



- 4. Enter the parameters for the dial-up connection:
 - The module telephone number: *99***1#
 (Change, if using a PDP context different from 1)
 - The specific account information for the network operator
 - A name for the connection, e.g., "EVK-LEXI-R520 dial-up"



The packet data connection is now ready with EVK-LEXI-R520. Click **Connect**, then start a browser to check internet connectivity.

Consult the cellular network operator for username and password. Usually, they can remain empty.



5 EVK-LEXI-R520 hardware

5.1 EVK-LEXI-R520 block diagram and description

Figure 5 shows the main interfaces and internal connections of the EVK-LEXI-R520 evaluation kit:

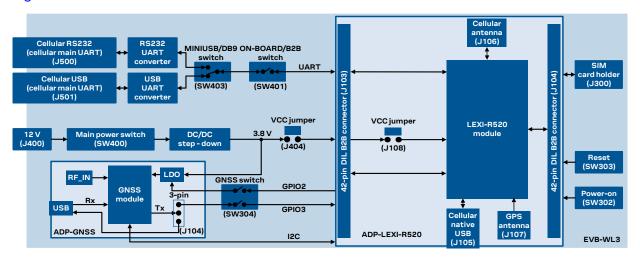


Figure 5: EVK-LEXI-R520 block diagram

The ADP-LEXI-R520 and ADP-GNSS are connected by male header board-to-board connectors on the bottom of the adapter boards and their corresponding female connectors on top of the EVB-WL3.

As illustrated in section 2.1.3 and summarized in Table 1, for communication via the UART interfaces of the cellular module, two options are allowed and can be enabled in a mutually exclusive way.

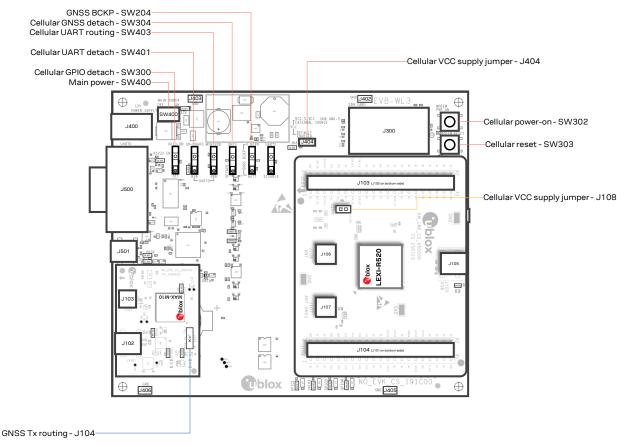
The USB interface of the cellular module (available for diagnostic purpose only) is available on the native USB connector (**J105**) mounted on the cellular adapter board.

Other LEXI-R520 peripherals are available on the dual-in-line male board-to-board connectors (**J103** and **J104**) provided on the top layer of the cellular adapter board.

The lower board (EVB-WL3) is also designed to be used with other u-blox cellular adapter boards. It contains additional switches, jumpers, connectors, LEDs and parts that may be only partially described in this document, because they are intended for use only with other u-blox cellular modules. It is recommended to leave any additional connector unconnected and any additional switch in its default configuration.



5.2 Switches, jumpers and buttons

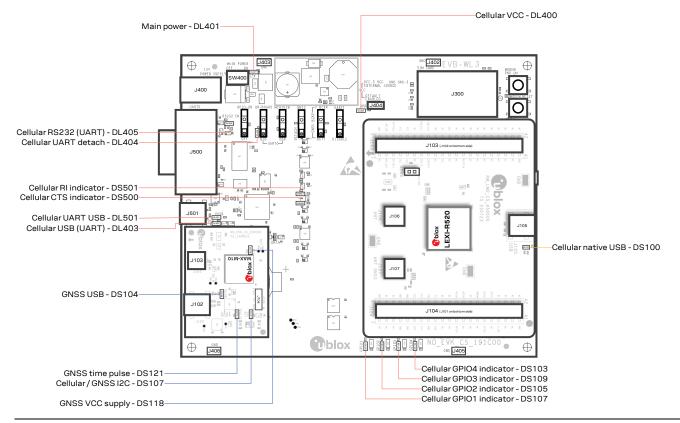


Function Description Name **Board** SW400 EVB-WL3 Main power switch Power on / off the whole evaluation kit Cellular VCC Jumper socket to provide the 3.8 V supply to the cellular VCC input J404 EVB-WL3 J108 ADP-LEXI-R520 Cellular power-on Push button to switch on / off LEXI-R520 modules SW302 EVB-WL3 Cellular reset Push button to reset LEXI-R520 modules SW303 EVB-WL3 Cellular UART detach Slide switch to attach / detach cellular UART from USB / RS232 SW401 EVB-WL3 Cellular UART routing Slide switch to select cellular main UART routing on USB or RS232 SW403 EVB-WL3 Cellular GPIO detach Slide switch to attach / detach the cellular GPIOs from peripherals: SW300 EVB-WL3 when detached, the signals are available only on DIL B2B connector on ADP-LEXI-R520 board Cellular GNSS detach Slide switch to attach / detach the cellular system to the GNSS module SW304 EVB-WL3 mounted on the ADP-GNSS: when detached, signals are available only on DIL B2B connector on ADP-LEXI-R520 board **GNSS BCKP** Slide switch to connect / disconnect backup battery to V_BCKP pin of SW204 EVB-WL3 the GNSS module mounted on the ADP-GNSS GNSS Tx routing 3-pin header jumper to route and make accessible GNSS UART Tx over J104 ADP-GNSS the USB connector on the ADP-GNSS or to use it as Tx data ready for the cellular module

Table 2: EVK-LEXI-R520 switches, jumpers and buttons description



5.3 LEDs

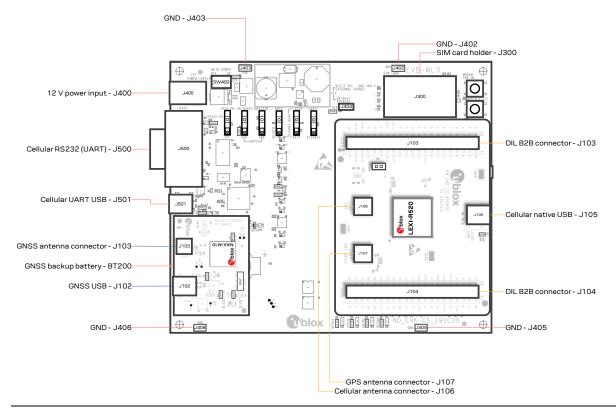


Function	Color	Description	LED#	Board
Main power		Power supply plugged in the 9 - 18 V power input	DL401	EVB-WL3
Cellular VCC		Cellular module supplied; main power switch must be switched on	DL400	EVB-WL3
Cellular UART USB		USB cable plugged in J501 for UART access	DL501	EVB-WL3
Cellular USB (UART)		Green light on when UART is routed to J501 Red light blinks at UART TX or RX data on J501	DL403	EVB-WL3
Cellular UART detach		UART signals are available only on ADP-LEXI-R520	DL404	EVB-WL3
Cellular RS232 (UART)		Green light on when UART is routed to J500 Red light blinks at UART TX or RX data on J500	DL405	EVB-WL3
Cellular RI indicator		RI line turns ON (active low)	DS501	EVB-WL3
Cellular CTS indicator		CTS line turns ON (active low)	DS500	EVB-WL3
Cellular GPIO1 indicator		Green light on when cellular GPIO1 is high	DS107	EVB-WL3
Cellular GPIO2 indicator		Green light on when cellular GPIO2 is high	DS105	EVB-WL3
Cellular GPIO3 indicator		Green light on when cellular GPIO3 is high	DS109	EVB-WL3
Cellular GPIO4 indicator		Green light on when cellular GPIO4 is high	DS103	EVB-WL3
Cellular native USB		USB cable plugged in J105 on ADP-LEXI-R520	DS100	ADP-LEXI-R520
GNSS VCC supply		MAX-M10S GNSS module supply is turned on	DS118	ADP-GNSS
GNSS USB		USB cable plugged in J102 on ADP-GNSS	DS104	ADP-GNSS
GNSS time pulse		MAX-M10S GNSS time pulse	DS121	ADP-GNSS
Cellular / GNSS I2C		Cellular / GNSS module communication over the I2C interface	DS107	ADP-GNSS

Table 3: EVK-LEXI-R520 LEDs description



5.4 Connectors



Function	Description	Name	Board
9 - 18 V power input	Connector for the AC / DC power adapter of EVK AC: 100-240 V, 0.8 A, 50-60 Hz / DC: +12 V, 2.5 A Class II equipment	J400 :	EVB-WL3
SIM card holder	SIM card holder (mini-SIM 2FF)	J300	EVB-WL3
Cellular USB (UART)	Mini-USB connector for the cellular UART interface converted as USB interface	J501	EVB-WL3
Cellular RS232 (UART)	DB9 connector for the cellular UART interface converted as RS232 interface	J500	EVB-WL3
GNSS backup battery	Backup battery socket for the GNSS module (under ADP-GNSS board)	BT200	EVB-WL3
GND	Ground terminals for the probe reference	J402, J403 J405, J406	
Cellular antenna	SMA connector for the cellular antenna (ANT)	J106	ADP-LEXI-R520
GPS antenna	SMA connector for the GPS antenna to be connected to the GPS RF input of the LEXI-R520 module (ANT_GNSS)	J107	ADP-LEXI-R520
Cellular native USB	Mini-USB connector for the cellular native USB interface	J105	ADP-LEXI-R520
DIL B2B headers	Dual-in-line board-to-board connectors for cellular module interfaces	J103, J104	ADP-LEXI-R520
GNSS antenna	SMA connector for the GNSS antenna to be connected to the GNSS RF input of the MAX-M10S GNSS module (RF_IN)	J103	ADP-GNSS
GNSS USB	Mini-USB connector for the GNSS module UART interface converted as USB interface	J102	ADP-GNSS

Table 4: EVK-LEXI-R520 connectors description

⚠

In the unlikely event of a failure in the internal protection circuitry, there is a risk of an explosion when charging a fully or a partially discharged battery. Replace the battery when it no longer has sufficient charge for unit operation. Check the battery before use if the device has not been used for an extended period.

⚠

Risk of explosion if the battery is replaced with an incorrect type. Dispose battery according to rules!



5.5 EVK-LEXI-R520 pin out

Table 5 lists the interfaces of the LEXI-R520 modules, as routed up to the 42-pin dual-in-line board-to-board connectors (J103 and J104) available on the ADP-LEXI-R520 adapter board of the evaluation kit.

LEXI-R520 module			Connector	LEXI-R	520 modu	le	Connector	
Pin no.	Pin ID	Signal name	Name / pin number	Pin no.	Pin ID	Signal name	Name / pin number	
1	B1	GND	J104 pins 7-10	27	P15	PWR_ON	J104 pin 30	
2	C1	ANT_GNSS	Not available	28	N15	RESET_N	J103 pin 25	
3	D1	GND	J104 pins 7-10	29	M15	GPIO6	J104 pin 24	
4	E1	RXD	J104 pin 15	30	L15	SIM_RST	J103 pin 15	
5	F1	TXD	J104 pin 16	31	K15	SIM_CLK	J103 pin 16	
6	G1	CTS	J104 pin 13	32	J15	SIM_IO	J103 pin 13	
7	H1	RTS	J104 pin 14	33	H15	VSIM	J103 pin 14	
8	J1	DCD	J104 pin 12	34	G15	SDIO_D3	Not available	
9	K1	DTR	J104 pin 11	35	F15	SDIO_D2	Not available	
10	L1	RI	J104 pin 18	36	E15	SDIO_D1	Not available	
11	M1	DSR	J104 pin 17	37	D15	SDIO_D0	Not available	
12	N1	SCL	J103 pin 19	38	C15	SDIO_CLK	Not available	
13	P1	SDA	J103 pin 22	39	B15	SDIO_CMD	Not available	
14	R2	GPIO1	J104 pin 34	40	A14	VCC	J103 pins 7-10	
15	R3	GPIO2	J104 pin 32	41	A13	VCC	J103 pins 7-10	
16	R4	GPIO3	J104 pin 31	42	A12	VCC	J103 pins 7-10	
17	R5	GPIO4	J104 pin 26	43	A11	V_INT	J104 pin 35	
18	R6	GPIO5	J104 pin 23	44	A10	RFCTRL2	J103 pin 6	
19	R7	RSVD	Not available	45	A9	RFCTRL1	J103 pin 5	
20	R8	USB_D-	Not available	46	A8	ANT_ON	J103 pin 4	
21	R9	USB_D+	Not available	47	Α7	ADC	Not available	
22	R10	VUSB_DET	Not available	48	A6	RSVD	Not available	
23	R11	RSVD	Not available	49	A5	ANT_DET	J103 pin 3	
24	R12	RSVD	Not available	50	A4	GND	J104 pins 7-10	
25	R13	RSVD	Not available	51	А3	ANT	Not available	
26	R14	RSVD	Not available	52	A2	GND	J104 pins 7-10	

Table 5: Interfaces of LEXI-R520 modules



Dual-in-line board-to-board connector J104			Dual-in-line b	oard-to-k	oard conr	nector J103	
Signal name	Pin no.	Pin no.	Signal name	Signal name	Pin no.	Pin no.	Signal name
Not connected	1	2	GND	Not connected	1 2		GND
Not connected	3	4	Not connected	ANT_DET	3	4	ANT_ON
Not connected	5	6	Not connected	RFCTRL1	5	6	RFCTRL2
GND	7	8	GND	VCC	7	8	VCC
GND	9	10	GND	VCC	9	10	VCC
DTR	11	12	DCD	Not connected	11	12	Not connected
CTS	13	14	RTS	SIM_IO	13	14	VSIM
RXD	15	16	TXD	SIM_RST	15	16	SIM_CLK
DSR	17	18	RI	Not connected	17	18	Not connected
Not connected	19	20	Not connected	SCL	19	20	Not connected
Not connected	21	22	Not connected	Not connected	21	22	SDA
GPIO5	23	24	GPIO6	Not connected	23	24	Not connected
Not connected	25	26	GPIO4	RESET_N	25	26	Not connected
Not connected	27	28	Not connected	Not connected	27	28	Not connected
Not connected	29	30	PWR_ON	Not connected	29	30	Not connected
GPIO3	31	32	GPIO2	Not connected	31	32	Not connected
Not connected	33	34	GPIO1	Not connected	33	34	Not connected
V_INT	35	36	Not connected	Not connected	35	36	Not connected
Not connected	37	38	Not connected	Not connected	37	38	Not connected
Not connected	39	40	Not connected	Not connected	39	40	Not connected
GND	41	42	Not connected	GND	41	42	Not connected

Table 6: Pin-out of the 42-pin dual-in-line board-to-board connectors (J103, J104)

The pins / interfaces that are not supported by LEXI-R520 modules should be not driven by an external device. See the LEXI-R520 data sheet [2] and the LEXI-R520 system integration manual [3] to learn about the features supported by LEXI-R520 module.



5.6 Current consumption measurement

To measure the current consumption of LEXI-R520 modules, remove the jumper socket from the cellular VCC supply jumper **J108** on the ADP-LEXI-R520 board, as shown in Figure 6.

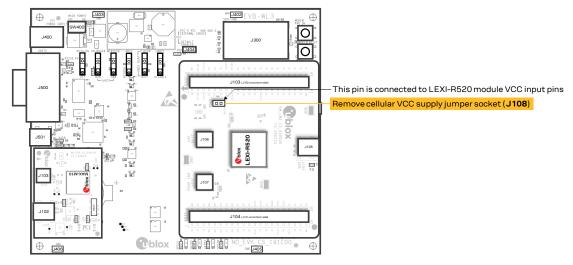


Figure 6: Jumper socket to be removed for LEXI-R520 module's current consumption measurement

A suitable external digital multi-meter (as the Keysight 34465A, 34410A or 34411A) can be used for current consumption measurements: in this example, the 3.8 V supply circuit on the EVB-WL3 will supply the cellular module, with the digital multi-meter placed in series as illustrated in Figure 7.

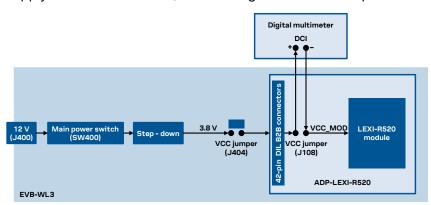


Figure 7: Setup for cellular module's current consumption measurement using a current meter

Alternatively, a suitable external DC power supply with dynamic current measurement capabilities (e.g., the portable and cheap Qoitech Otii Arc, or the more accurate Keysight N6705B, or the models designed for mobile communications Keysight 66319B/D or 66321B/D) can be used, acting also as 3.8 V supply source for the cellular module mounted on the adapter board, as illustrated in Figure 8.

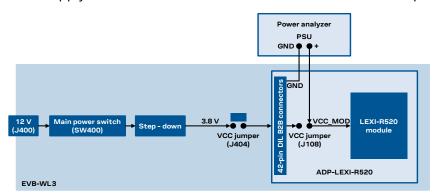


Figure 8: Setup for cellular module's current consumption measurement using a DC power analyzer



Appendix

A Setting up AT terminal communication

The u-blox m-center cellular module evaluation tool is a powerful platform for evaluating, configuring and testing u-blox cellular products. m-center includes an AT commands terminal for communication with the device and can be downloaded for free from https://www.u-blox.com/en/product/m-center. For m-center example scripts, visit https://github.com/u-blox/m-center.

- 1. Follow the board setup instructions in section 2 to provide all the required connections and switching on the cellular module.
- 2. Run the u-blox m-center tool: after the m-center start-up, the **Home** page appears, as shown in Figure 9.

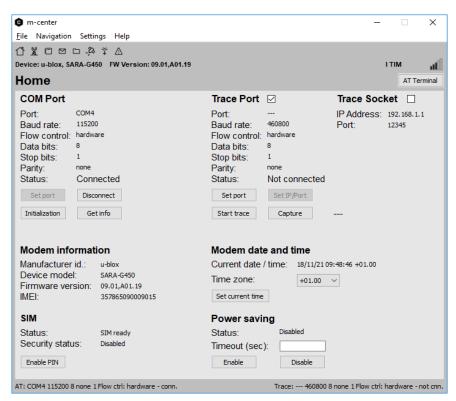


Figure 9: m-center Home page

- 3. On the **Home** page, set up the AT COM port with setting values below:
 - o Data rate: 115200 bit/s
 - Data bits: 8Parity: NStop bits: 1Flow control: HW
- 4. Check in the Windows Device Manager to find out which specific COM port is being used by the EVK-LEXI-R520.
- 5. Enable the connection to u-blox cellular module by clicking on the **Connect** button.
- 6. Retrieve the module and network information by clicking on the **Get info** button.
- 7. The module information is retrieved and displayed on the **Home** page.



8. Click on the **AT Terminal** button, found at the upper right of the **Home** page. A new window opens, and the AT command terminal is now ready for communication with the EVK-LEXI-R520.

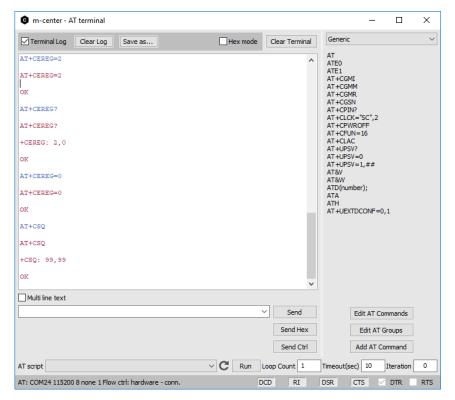


Figure 10: AT terminal window

For more information on using the u-blox m-center, press the ${\bf F1}$ key to open the m-center help window on the computer.

For the complete list of the AT commands supported by the modules and their syntax, see the AT commands manual [1].



B Glossary

Definition		
Alternating current		
Analog to Digital Converter		
Adapter Board		
Access Point Name		
AT Command Interpreter Software Subsystem, or attention		
Assisted Global Positioning System		
Board-To-Board		
Clear To Send		
Direct current		
Data Carrier Detect		
Data Communication Equipment		
Dual In Line		
Data Set Ready		
Data Terminal Equipment		
Data Terminal Ready		
Evaluation Board		
Evaluation Kit		
Ground		
Global Navigation Satellite System		
General Purpose Input Output		
Hardware		
Inter-Integrated Circuit		
Internet of Things		
Internet Protocol		
Light Emitting Diode		
Long Term Evolution		
Micro-Controller Unit		
Narrow Band		
Packet Data Protocol		
Power Supply Unit		
Radio Access Technology		
Radio Frequency		
Ring Indicator		
Request To Send		
Receiver		
Subscriber Identity Module		
SubMiniature version A		
Transfer Control Protocol		
Transmitter		
Universal Asynchronous Receiver-Transmitter serial interface		
Universal Serial Bus		



C Conformity notice

The equipment is intended for indoor usage. It is the user's duty to verify if further restrictions apply, such as in airplanes, hospitals, or hazardous locations (petrol stations, refineries...). Any changes or modification made to this equipment will void its compliance to the safety requirements.

Maintenance, inspections and/or repairs of the EVK-LEXI-R520 shall be performed by u-blox AG.

Related documentation

- [1] u-blox LEXI-R520 / SARA-R5 series AT commands Manual, UBX-19047455
- [2] u-blox LEXI-R520 data sheet, UBX-22020070
- [3] u-blox LEXI-R520 system integration manual, UBX-23008006
- [4] u-blox LEXI-R520 / SARA-R5 series application development guide, UBX-20009652
- [5] u-blox LEXI-R520 / SARA-R520 SpotNow application note, UBX-22003096



For regular updates to u-blox documentation and to receive product change notifications, register on our homepage (www.u-blox.com).

Revision history

Revision	Date	Name	Comments
R01	27-Oct-2023	fvid	Initial release.
R02	18-Apr-2024	fvid	Updated ADP-LEXI-R520 board design

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For further support and contact information, visit us at www.u-blox.com/support.