

JLink 3G Family



JLink 3G is a family of devices designed for organizing a local network between different devices via WiFi, Ethernet, and Bluetooth, connecting to the Internet using 3.5G cellular digital communication services.

JLink 3G family provides a robust solution linking the field GNSS equipment to RTN, where no cell phone cover is available. JLink 3G devices may contain 1 W either UHF (406 to 470 MHz) or VHF (138-174 MHz), or ISM license free USA band (902-928 MHz) and European CEPT license free (868-870 MHz) radio transceiver. Marine Radiobeacon receiver (283.5 to 325 kHz) can be built-in into JLink 3G device.

JLink 3G can be configured and supported using web-interface through Internet, and this makes the setup mechanism simple and accessible from anywhere in the world.

JLINK 3G FAMILY

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Web interface for communication, monitoring and setup JLink 3G devices from anywhere in the world.

3.5G Cellular Module

Supported frequencies	GSM/GPRS/EDGE: 850, 900, 1800, 1900 MHz UMTS/HSPA: 800/850, 900, AWS1700, 1900, 2100 MHz
Data	HSPA category 6 in uplink and up to category 14 in downlink - Uplink up to 5.76 Mbps - Downlink up to 21.0 Mbps UMTS - Uplink/Dowlink up to 384 kbps EDGE - Uplink up to 236.8 kbps - Dowlink up to 296 kbps GPRS CSD
SIM card slot	One microSIM card can be used; user accessible, fully sealed

UHF/VHF Radio (optional)

ISM Radio (optional)

Frequency Range Channel Bandwidth	406-470 MHz/138-174 MHz 25/20/12.5/6.25 kHz	Frequency Range	902-928 MHz (USA)/ 915-928 MHz (Australia)/ 8 68-870 MHz (EU) with 25/12.5 kHz CS
Modulation	DBPSK/DQPSK/D8PSK/D16QAM/4FSK/GMSK	Modulation	GMSK
Transmitter Output Power	1W (+30 dBm)	Data Rate of Radio Interface	64000 bps
Communication Mode	Half duplex, simplex, repeater	(USA/Australia)	04000 003
		Data Rate Radio Interface (EU)	9600 bps
		Transmitter Output Power	1W (+30 dBm)
		Communication Mode	Half duplex, simplex, repeater

Beacon Receiver (optional)

Frequency Range	283.5- 325 kHz
User Data Rates	50, 100, 200 bps (manual or Auto selection)
Sensitivity	1.5 mV/m for 6 dB SNR (200 bps)

GPS Receiver

Tracking Channels	GPS L1
Signals Tracked	C/A Code
Cold / Warm Start	42 / 30 seconds
Sensitivity for Reacquisition	- 161dBm

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Communication Ports

Wi-Fi (IEEE 802.11 b,g,n,d,e,i) Full-duplex 10BASE-T/100BASE-TX Ethernet port

Bluetooth V2.0+EDR Class 2 High Speed USB 2.0 configurable as Device or Host port MicroSD card slot (fully sealed) Serial port configurable as RS232/RS422/RS485

Environmental

Enclosure	aluminum, IP67
Color	Two-tone Gray / Green
Operating Temperature	-40° C to +70° C *
Storage Temperature	-40° C to +85° C **
Humidity	100% condensing
Weight	468 g / 970 g
Power Supply Voltage	+5.536V without battery charging, 4Amax +1234V when the battery is charged, 3.6Amax
Battery (optional)	One embedded, 7.2V, 5850 mAh

* The operating temperature of Li-lon batteries is -20 $^\circ$ C to+45 $^\circ$ C ** The storage temperature range of Li-lon batteries is -20 $^\circ$ C to +60 $^\circ$ C

Compliance: FCC, Industry Canada, ETSI

Pinout of JLink 3G power and communication port

Pin #	Signal Name	I/O	Description
1	TX+/RTS_OUT	0	Transmit Data positive line (RS-422) / Request to Send (RS-232)
2	RX+/CTS_IN	I	Receive Data positive line (RS-422) /Clear to Send (RS-232)
3	DTR_OUT	0	Data Terminal Ready (RS-232)
4	USB0_DP	I/0	Data Positive line (USB)
5	USB0_DM	I/0	Data Negative line (USB)
6	ELED+	0	LED line (LAN)
7	ETD+	0	Transmit Data positive line (LAN)
8	ERD+	I	Receive Data positive line (LAN)
9	PWR_IN	PWR	+5.5 to +36 VDC Power Input
10	TX-/TX_OUT	0	Transmit Data negative line (RS-422) / Transmit Data (RS-232)
11	RX-/RX_IN	I	Receive Data negative line (RS-422) /Receive Data (RS-232)
12	DSR_IN	I	Data Set Ready (RS-232)
13	DCD_OUT	0	Data Carrier Detect (RS-232)
14	USB0_VBUS	PWR	Power line (USB)
15	USB0_ID	I	USB0 ID line
16	ETD-	0	Transmit Data negative line (LAN)
17	ERD-	I	Receive Data negative line (LAN)
18	PWR_IN	PWR	+5.5 to +36 VDC Power Input
19	GND	PWR	Power Ground
20	GND	PWR	Power Ground
21	GND	PWR	Power Ground
22	RESERVE	-	Not used. Reserve
23	RESERVE	-	Not used. Reserve
24	RESERVE	-	Not used. Reserve
25	RESERVE	-	Not used. Reserve
26	PWR_IN	PWR	+5.5 to +36 VDC Power Input







Variant 2



Variant 3



Variant 4

1 - UHF/VHF/ISM Transceiver / Beacon receiver, cellular module, GPS receiver, Bluetooth, WiFi, Ethernet, USB and Serial port.

2 - Variant 1 with battery.

3 - Cellular module, GPS receiver, Bluetooth, WiFi, Ethernet, USB and Serial port.

4 - Variant 3 with battery.

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