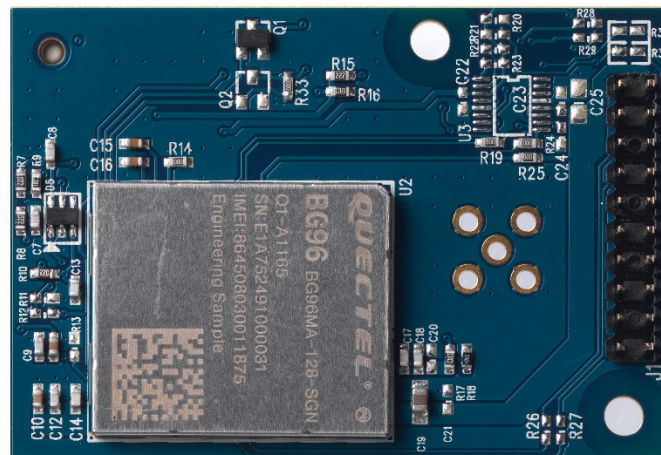
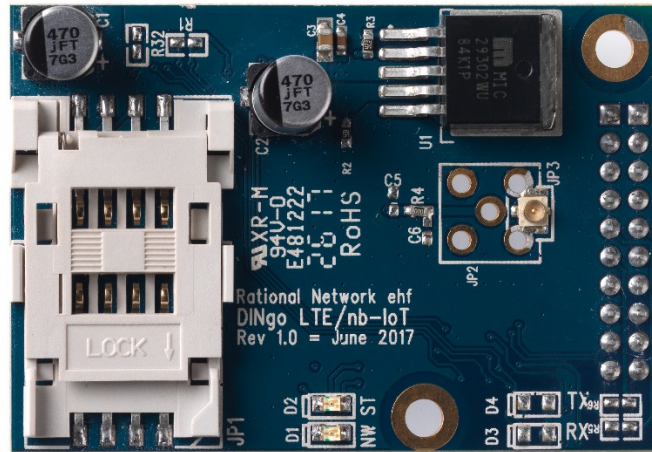


DINGO NB-IOT Modem Module

Item specifications

Go-IoT Item Id:	DINGO-PG-NB-IOT-01
GSM	Quectel BG96 http://www.quectel.com/product/BG96.htm
FDD-LTE	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28
TDD-LTE	B39 (FOR Cat.M1 only)
Quad Band	850/900/1800/1900 MHz
Protocol	PPP/TCP/UDP/FTP/HTTP/SMTP/SSL/MUX
Data Rate Cat M1	Max 375Kbs downlink - Max 375Kbs uplink
Data Rate Cat NB1	Max 32Kbs downlink - Max 70Kbs uplink
Data Rate Cat GPRS	Max 85.6Kbs downlink - Max 85.6Kbs uplink
Data Rate Cat EDGE	Max 236.8Kbs downlink - Max 236.8Kbs uplink
USB Interface	1
Serial TTL Interface	1 (not used)
SIMM Card Connector	1
Indicators	Network Status Power ON / OFF Status
Antenna Connectors	SMA (option) U-FL (standard)
Drivers	Linux
Expansion Connectors	1 x 20way header from Base Board
DC Input	+5V
Temperature	-20 degree C to +85 degree C
Size (L x W x H)	58mm x 40mm x 8mm
Country/Region of Manufacture:	EU





20WAY GSM Interface

Pin	Port	Dir	Pull Up	Function	Description
1	+12V			POWER	
2	SPI_CLK	IN		SPI	SPI Clock
3	+3.3V			POWER	
4	SPI_MOSI	IN		SPI	SPI Master Out SLAVE In
5	TXD2	IN		Serial TX Data	Serial TTL Data from Host – Channel 2
6	SPI_MISO	IN		SPI	SPI Master In SLAVE Out
7	RXD2	OUT		Serial RX Data	Serial TTL Data to Host – Channel 2
8	SPI_SSx	OUT		SPI	Output from Power Line Module
9	NEVENTx	OUT		Power Line	SPI Slave Select
10	TXD3	IN		Serial TX Data	Serial TTL Data from Host – Channel 3
11	GND			POWER	
12	RXD3	OUT		Serial TX Data	Serial TTL Data to Host – Channel 3
13	ADDR1			IO	Module Specific
14	I2C_SCL	IN		I2C CLOCK	I2C – Channel 1 Clock
15	ADDR1			IO	Module Specific
16	I2C_SDA	BI		I2C DATA	I2C – Channel 1 Data
17	GPIOx	BI		IO	Module Specific
18	USB +	BI		USB Data	USB Positive Channel x
19	+5.0V	IN		POWER	+5.0V Output – 1000mA available
20	USB -	BI		USB Data	USB Negative Channel x

x = Channel / Number depend on location on Base Board

Blue Text is signals used on Module