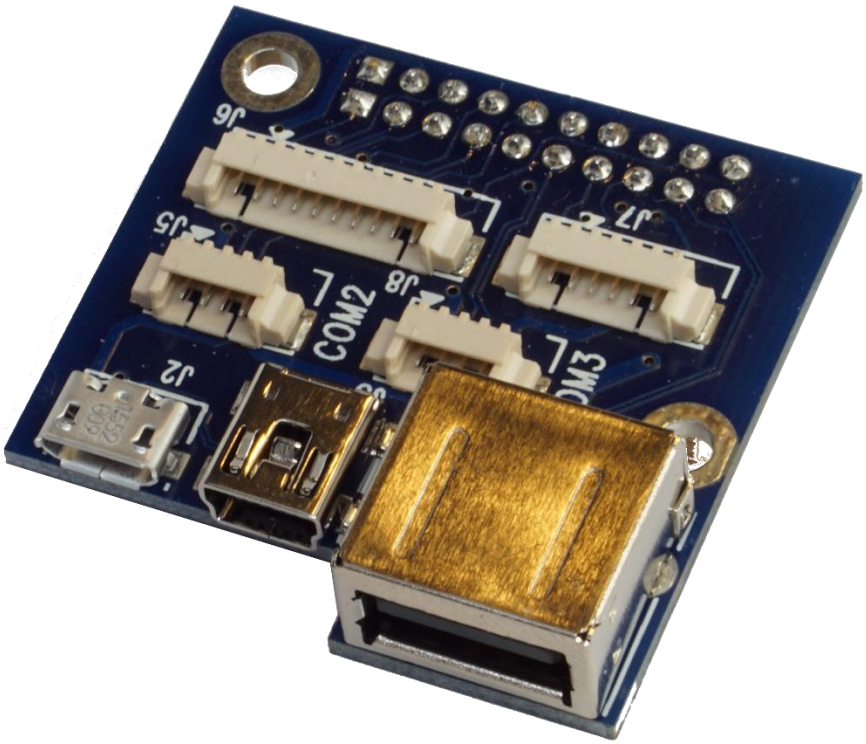
DINGO PLUG-IN

USB Plug-in

DATASHEET COMPLETE

Item specifications

Go-IoT Item Id:	DINGO-PG-USB-01
USB 2.0 Interface	1
USB Connector	Type A Mini Micro
TTL Serial Interface	2
SPI Interface	1
I2C Interface	1
Expansion Connectors	1 x 20way header from Base Board
DC Input	+5V
Temperature	-20degree C to +85degree C
Size (L x W)	40 x 40 mm
Country/Region of Manufacture:	EU



20WAY Base Board Interface

Pin	Port	Dir	Pull Up	Function	Description
1	+12V			POWER	
2	SPI_CLK	IN		SPI	SPI Clock
3	+3.3V			+3.3V	
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_CE1	OUT		SPI	SPI Master Slave Select
9	NEVENTx	OUT		Power Line	nEvent Signal
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 Address Setting
14	I2C_SCL	IN		I2C CLOCK	I2C – Channel 1 Clock
15	ADDR1			IO	Module Specific Address Setting
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

4WAY J2, J3, J4 USB Interface

1	+5.0V			Power	
2	USB-	BI-DI		USB Data -	USB Data from HUB on Host
3	USB+	BI-DI		USB Data +	USB Data from HUB on Host
4	GND			Power	

4WAY J5 Serial Interface

1	+3.3V			Power	
2	TXD2	OUT		Serial TXD Data	Serial TTL Data from Host – Channel 2
3	RXD2	IN		Serial RXD Data	Serial TTL Data to Host – Channel 2
4	GND			Power	

4WAY J8 Serial Interface

1	+3.3V			Power	
2	TXD3	OUT		Serial TXD Data	Serial TTL Data from Host – Channel 3
3	RXD3	IN		Serial RXD Data	Serial TTL Data to Host – Channel 3
4	GND			Power	

10WAY J6 SPI Interface

1	+3.3V			Power	
2	SPI_CLK	OUT		SPI	SPI Clock
3	SPI_MOSI	OUT		SPI	SPI Master Out SLAVE In
4	SPI_MISO	IN		SPI	SPI Master In SLAVE Out
5	nc				
6	SPI_CE1	OUT		SPI	SPI Master Slave Select – GPIO7
7	nc				
8	GPIOx	BI		IO	Module Specific Station 1 – GPIO6 Station 2 – GPIO5 Station 3 – GPIO4 Station 4 – GPIO4
9	NEVENTx	OUT		Power Line	nEvent Signal Station 1 – GPIO20 Station 2 – GPIO19 Station 3 – GPIO37 Station 3 – GPIO33
10	GND			Power	

6WAY J7 I2C Interface

1	+3.3V			Power	
2	I2C_SDA	BI		I2C DATA	I2C – Channel 1 Data - GPIO2
3	I2C_SCL	IN		I2C CLOCK	I2C – Channel 1 Clock - GPIO3
4	nc				
5	nc				
6	GND			Power	