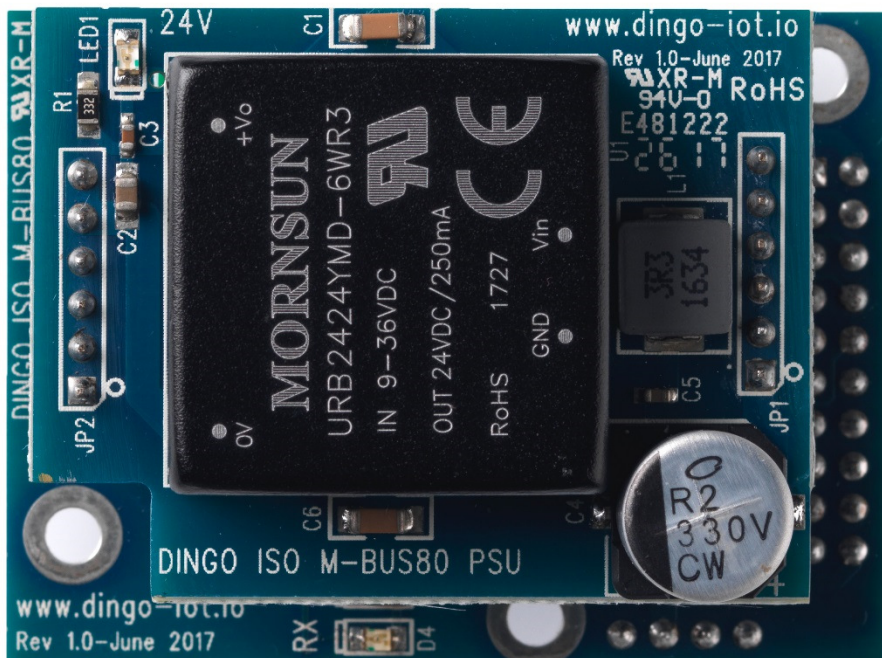


Opto Isolated MBUS80 Plug-in

Item specifications

Go-IoT Item Id:	DINGO-PG-MBUS80
Data in Accordance with	EN13757-1 -2, -3, IEC 60950, EN61999-6-2, EN61000-6-3 and EN61000-4-2
MBUS Voltage	36V
No of MBUS Slaves	Upto 80
USB 2.0 Interface	1
TTL Serial Interface	1 (not used)
Indicators	LEDs – TXD and RXD
Isolation Voltage	2.5kV RMS
Drivers	Linux
Expansion Connectors	1 x 20way header from Base Board 2 x 4way header from Base Board
DC Input	+5.0V
Temperature	-20 degree C to +85 degree C
Size (L x W)	60 x 40 mm
Country/Region of Manufacture:	EU



20WAY MBUS 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

8WAY MBUS Interface to External Connectors

21	MBUS+	BI	Isolated	MBUS +V Signal	MBUS Positive line to all MBUS Slaves
22	ISO GND		Isolated	POWER	
23	MBUS+	BI	Isolated	MBUS +V Signal	MBUS Positive line to all MBUS Slaves
24	MBUS-		Isolated	MBUS -V Signal	MBUS Negative line to all MBUS Slaves
25	Not used				
26	Not used				
27	Not used				
28	Not used				