

# **R·LITE -X2** Put Yourself Ahead **PRODUCT FAMILY**



**Version 3.2**  
**27 May 2009**

## THE RLITE X2 PRODUCT FAMILY

The RLite X2 product family gives you variety of option to suit your needs, below a table that define all products:

All models can be with one of two communication interface options: RS-232 or RS-485.

MODEL	I/O	NOTES
RLITE X2	4 Digital Inputs 1 Relay Output	
RLITE X2 PRO 2A	2 Analog 4-20mA inputs 2 Digital Inputs 1 Relay Output	Two nonlinear calibration table to both Analog inputs
RLITE X2 PRO 2O	2 Open Collector Outputs 2 Digital Inputs 1 Relay Output	
RLITE X2 WEB 2A *	2 Analog 4-20mA inputs 2 Digital Inputs 1 Relay Output	
RLITE X2 WEB 2O *	2 Open Collector Outputs 2 Digital Inputs 1 Relay Output	Not include nonlinear table
RLITE X2 WEB 2C *	4 Digital Inputs 2 Counters connected to 2 of the DI 1 Relay Output	The Counter increasing with any upraise of the DI.

*Table 1: RLITE models*

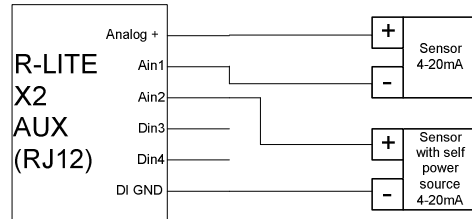
\* The WEB option is refer to the log and sever database option.

**NOTE:** You can see the model type at the back of your device.

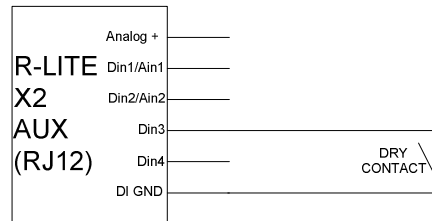
# RLITE X2 FAMILY specifications

## Cabling the R-LITE X2 MODELS

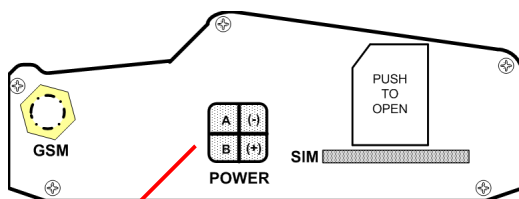
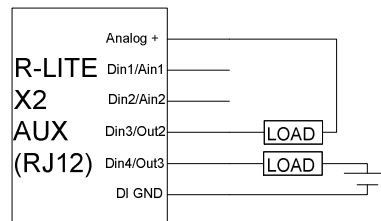
Cabling Analog inputs  
Model: PRO/WEB 2A



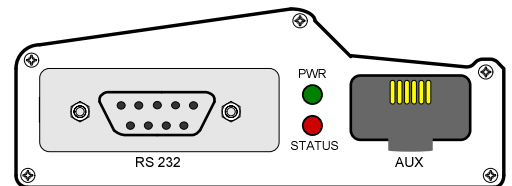
Digital inputs cabling  
All models



Cabling Open collector output  
Model: PRO/WEB 2O

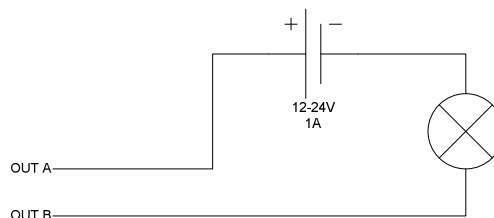
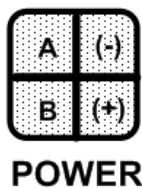


Back Panel Interface



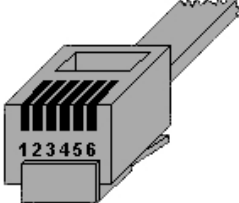
Front Panel Interface


Power supply and relay output connector



Relay output cabling

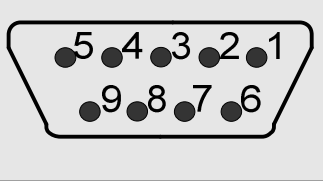
**Table 2:RJ12 Pinout Information**

Socket	Pin	MODEL		
		RLITE X2(WEB)	RLITE X2- PRO(WEB)- 2A	RLITE X2- PRO(WEB)- 2O
 <p>RJ12 (6P6C)</p>	1	NA	ANALOG +	ANALOG +
	2	Din1	Analog input 1 (Ain1)	Din1
	3	Din2	Analog input 2 (Ain2)	Din2
	4	Din3	Digital input 1 (Din1)	Open Collector output (OUT3)
	5	Din4	Digital input 2 (Din2)	Open Collector output (OUT2)
	6	GND	Ground(-)	

 **Warning:** The RLITE X2 is floating device. Make sure that no connection between the RLITE X2 unit and other electrical points.

## Communication Port

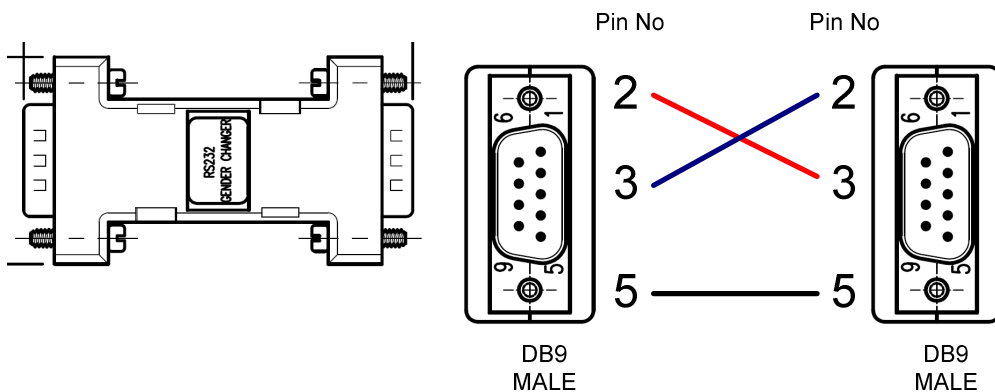
The RLITE X2 serial port communication is in one of 2 options: 232 or 485.  
The communication pins are described below.

Socket	Pin	232 **		485 *	
		Name	Description	Name	Description
 <p>DB9 FEMALE</p>	1	CD	Carrier detect		
	2	RX	Receive		
	3	TX	Transmit	+	Data +
	4	DTR	Data Terminal Ready	-	Data -
	5	GND	Ground	GND	Ground
	6	DSR	Data Set Ready		
	7	RTS	Request To Send		
	8	CTS	Clear To Send		
	9	RI	Ring Indicator		

\* For 485 communication it's recommended to connect a 100Ω resistor between the (+) and (-) connectors.

\*\* For 232 communication it's recommended to use adapter as described below.

### DB9 - Male to Male 3 wire Adapter:



**Note: The 6 remains pins are not connected!**

<u>Description</u>	<u>Specification</u>
<b><i>HW interfaces</i></b>	
RS-232 / RS-485	One DB9 male (standard EIA)
Analog Inputs	See models table (page )
Digital Inputs/Output	See models table (page )
Digital Output	1 (Relay 1A at 12-24V)
Display	2 Leds (red, yellow)
<b><i>Physical Characteristic</i></b>	
Dimension	104 X 67 X 33 mm
Weight	200 gram
Assembly	2 screw handles
<b><i>Power supply Specification</i></b>	
Power supply	9-24VDC 1A
Active current	100mA
Stand by current	30mA
Protection	According to MIL-STD-704E
<b><i>Environment</i></b>	
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
Operating Humidity	5% to 95%
<b><i>Protocols</i></b>	
PLC protocols	MODBUS, Unitronics, Microlog, Hostlink, Izumi and more...

<u>Description</u>	<u>Specification</u>
<b>Cellular Network Interface</b>	
Band	Two Band/ Tri Band/ Quad band
Protocols	CSD, SMS, GPRS class 10, Mobile station class B
Internal modem	Telit 864
Modem Approvals	Fully type approved according to R&TTE CE, GCF, FCC, PCTRB, IC
Technology	GSM network + SIM card
Antenna	Internal antenna MMCX External antenna MMCX
<b>Analog input Specification (2A models)</b>	
Number of input	2
Resolution bit	10 bit (0.02mA)
Conversion speed	10mS
Input Current	4-20mA DC
Precision	2% (0.4mA)
Input impedance	160Ω (10%)
<b>Digital input Specification</b>	
Number of input	4 2 (2A or 2O)
Response time	20mS
Minimum pulse width	1s
<b>Counter Specification (2C models)</b>	
Number of Counters	2 (connect to Di1,Di2)
Maximum counts	up to 65535 pulses each counter
<b>Open Collector Output Specification (2O models)</b>	
Number of input	2
Output type	Open collector output
Max current thru open collector	150mA

<b>Relay Output Specification</b>	
Number of output	1
Output type	Relay 1A/30VDC 0.5A/125VAC
Max switching voltage/current	220VDC/1A 250VAC/1A
Contact life cycle	200,000 operations minimum (contact rating)
Minimum load	0.01mA/10mV
Contact resistance or voltage drop	up to 50mΩ
Response time	3mS
<b>Data Logging (WEB models)</b>	
Logger Memory	20KB
Minimum Logging Interval	1 Minute
Maximum Channels Sampling	10
Transferring Data Schedule	Up to 5 tasks
Transferring Data Destination	REMMON website (private user login)
Socket definition	Compatible for DNS definition

**R-LITE Approvals** : CE, RoHs compatible.

## Contact Information

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