

Daisy Chaining – IPLite version 2

iPower PDUs can be daisy chained to best utilise available network ports and minimising the number of IP addresses required through daisy chaining / cascading. Up to 32 PDUs can be Monitored, Managed and Controlled through a single network port. The following instructions explain how to set up the PDUs Modbus Network and connect them together.

Cabling the PDUs

The IPLite (Version 2) has two Modbus ports, these are RJ22 (4P4C) ports, and you need to connect the PDUs you want to daisy chain together (UP to a maximum of 32), using RJ22 – RJ22 cables, each cable can be up to 3 Mtrs in length (Longer

lengths are possible, but could result in transmission / data loss), These cables can be purchased from iPower or you can make your own (Pin outs 1-1, 2-2, 3-3, 4-4) once the PDUs are connected its me to set them up in the web GUI.

Setting up the PDUs within the WEB GUI

Please follow the steps below.

Setting up the Slave / Secondary PDUs, it is best practice to set up the Slave PDUs first.

Log into the Web GUI of the PDU that will become your first Slave and go to the 'Configuration Page'.

Scroll down and locate the 'PDU Mode Settings and Status' section.

For PDU mode select 'Slave'

Change the Modbus Slave Address to the next consecutive number (Master PDUs will always be 1, Slave PDUs will be 2 – 32)

Press 'Save Changes'

The Modbus Status will show as 'LISTENING'.

This completes the setup of the Slave, now repeat for all connected slaves, each must have its own Slave address.

Setting up the Master / Primary PDU, this is the PDU that will ultimately be connected to the network.

Log into the Web GUI of the PDU that will become your first Master and go to the 'Configuration Page'.

Scroll down and locate the 'PDU Mode Settings and Status' section.

For PDU Mode select 'Master'

Then 'Save Changes'

Modbus Status will show as Searching, then Get Info, and finally RUNNING.

Once the PDU shows as running, go to the Overview page and check that all the Slave PDUs have been found.

Now you can check the connected Slaves in the 'Slave PDUs' page in the web GUI.

This completes the setup of the daisy chaining process.

PDU Mode settings and status

MODBUS Status	LISTENING	
PDU Mode	SLAVE	Note: Configuring the PDU for SLAVE mode disables all MODBUS master operations.
MODBUS Slave Address	02	
MODBUS Timeout (mS)	5000	Range 500-10000
MODBUS Retries	5	Range 1-10
SEARCH		
Save Changes		

PDU Mode settings and status

MODBUS Status	RUNNING	
PDU Mode	MASTER	Note: Configuring the PDU for SLAVE mode disables all MODBUS master operations.
MODBUS Slave Address	02	
MODBUS Timeout (mS)	5000	Range 500-10000
MODBUS Retries	5	Range 1-10
SEARCH		
Save Changes		

PDU Mode	MASTER	Slave PDUs	0
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Commissioning Service

iPower offer a commissioning service for UK based customers who would prefer the installation to be carried out on their behalf, this can be combined with a product training session, please contact us to discuss this further. Product training can be in person or via zoom / teams or similar if required.