

## TECHNICAL NOTE – RL2400E

### CABLING AN RL-2400E TO WAGO ETHERNET I/O SYSTEM

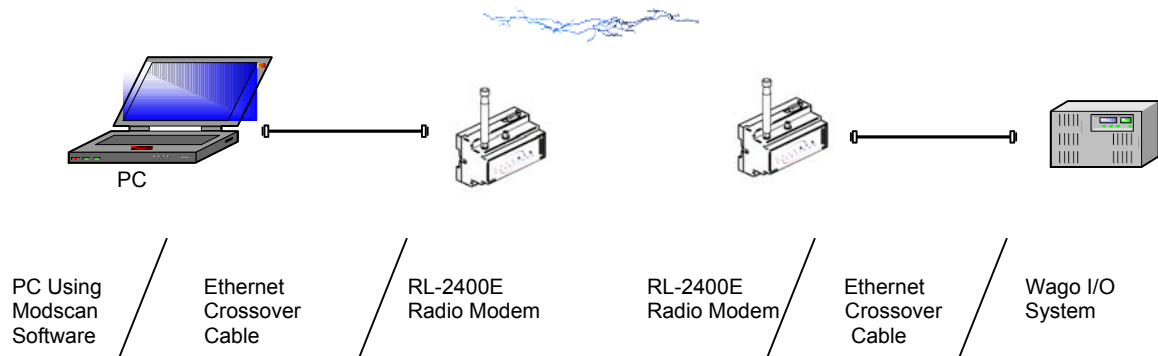
**Objective:** The following note describes how to interface the Wago I/O System with the RL-2400E radio. The RL-2400E radios need to be configured in a Point-Multipoint Modbus network.

#### Cable Configuration to the Wago I/O System

The following hardware was used to cable the RL-2400E radio to the Wago Ethernet 750-342 I/O System.

- 750-342 Wago Ethernet Modbus controller
- 750-501 2 channel Digital output
- 750-550 2 channel Analog Output
- 750-600 terminating end module
- Power Supply and Accessories (Ethernet cross over cable)

The diagram represents a transparent wireless RL-2400 Point-Multipoint Modbus network communicating with a Wago I/O controller.



#### Configuring the RL-2400E Ethernet Radio Settings

Open RadioLinx Configuration software

- Set *serial port /Configuration* to baud to 115200kbs, Parity none, data bits 8, stop bits 1, and Handshaking on.
- Go to *Configure / New network*, Change network to *Ethernet*.

Once the RL-2400E radio network is set up, go to network diagnostics and make sure radios are communicating with each other.

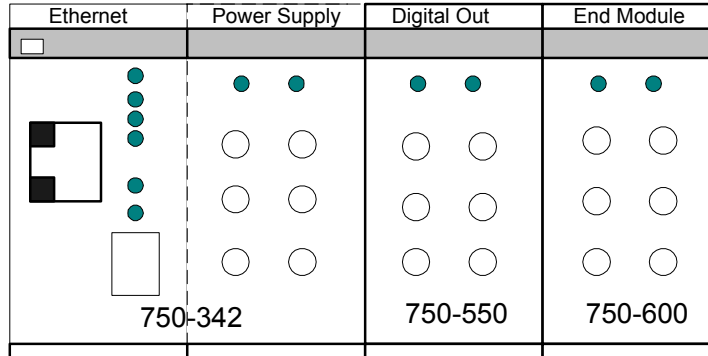
#### Configuring the Wago I/O System Software to Communicate with the RL-2400E Radio

- Hook up Master radio to the PC with an Ethernet crossover cable.
- Hook up remote radio to Wago I/O system with Ethernet crossover cable.
- Open ModScan32
- Go to the connection pull down menu and set the following:
  - Remote TCP/IP Server
  - Type in IP address of Bus Coupler

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Once connections are made and modules are installed as shown below, bits can then be toggled. Under the "MODBUS Point Type" go to "01:Coil Status". Double click on the first address 0001<0>. You can now change the value from on to off, which will then turn the first module 750-501, first LED on and off.



Wago I/O System