How to Configure Modbus Master mode



Overview

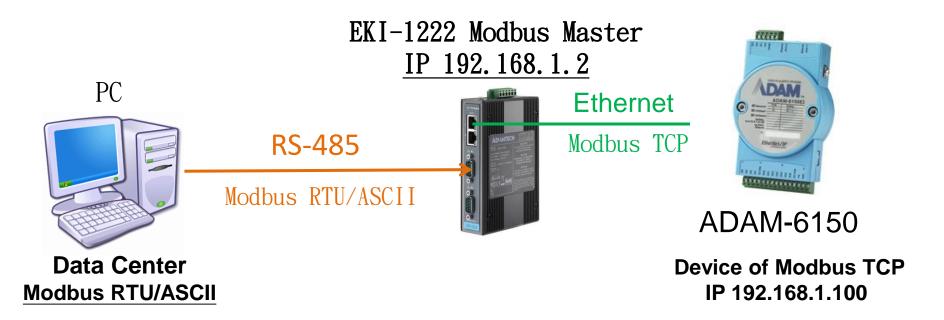
Modbus protocol is common industrial protocol. When we talk about how to communicate with Modbus serial data to Ethernet, the Modbus gateway is good solution to solve this problem. In Modbus gateway, there are two operation mode.

First, we called Modbus Slave mode, is most popular way to use this gateway. SCADA send out Modbus TCP command via gateway to get end terminal Modbus serial device status/data.

Another one we called Modbus Master mode. the polling way is opposite. SCADA send out Modbus RTU/ASCII command via gateway to get end terminal Modbus TCP device status/data.



Topology of Modbus Master Mode



The behavior of Modbus gateway which translates the data format of Modbus from RTU/ASCII to TCP, that we calls "Master Mode"



Configure Modbus Master Mode (1/3)

- Use WebGUI connect to modbus GW with IP 192.168.1.2
 - 1st. To Configure the "Basic" part first, then "Save" it

	Port 1 configuration	
Basic Operation	Advanced	
Туре	RS485 👻	
Baud Rate	9600 🗸	
Parity	None 👻	
Data Bits	8 🗸	
Stop Bits	1 -	
Flow Control	None 🗸	
ave		
	Type Baud Rate Parity Data Bits Stop Bits Flow Control	



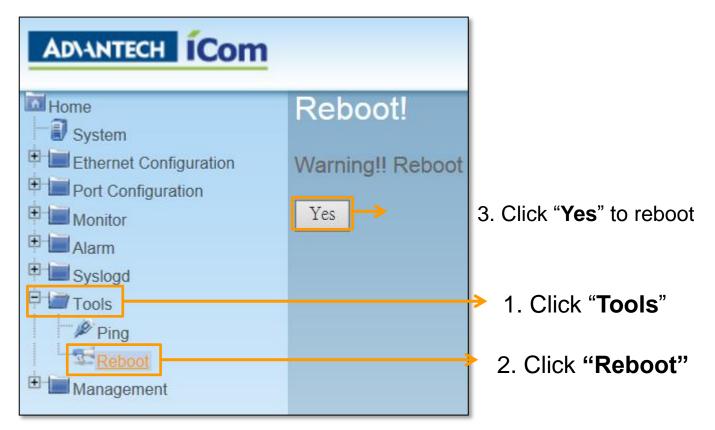
Configure Modbus Master Mode (2/3)

- 2: Operation Page Setting
 - 2nd. Mode: Modbus Master Mode; Protocol: select "RTU/ASCII" type; Master Timeout: wait for master device time interval;
 - 3rd. Peer for Receiving Data : Add the query of TCP device <Up to 16 > Peer IP: IP address of TCP device & Port: TCP port for sending out
- data & Mapping ID: Range of Node ID
 - 4th. Save: Save to change

Home	Port 2 configuration	
Ethernet Configuration 7 nd	Basic Operation	
Port Configuration	Mode	fodbus Master Mode 🗸
Port 1	Protocol RI	TU 🗸
Port 2	Master Timeout(ms) 50	000
Port 3	Frame Break(ms) 10	
Monitor 3rd.		Peer for Receiving Data
Alarm	Peer Number 2	\checkmark
E Syslogd	1 IP 192.168.1.100 Port	5800 Mapping ID From 1 To 10 Offset 0
Tools 4th.	2 IP 192.168.1.100 Port	5900 Mapping ID From 30 To 40 Offset -10
. Management 4 th .	Save	

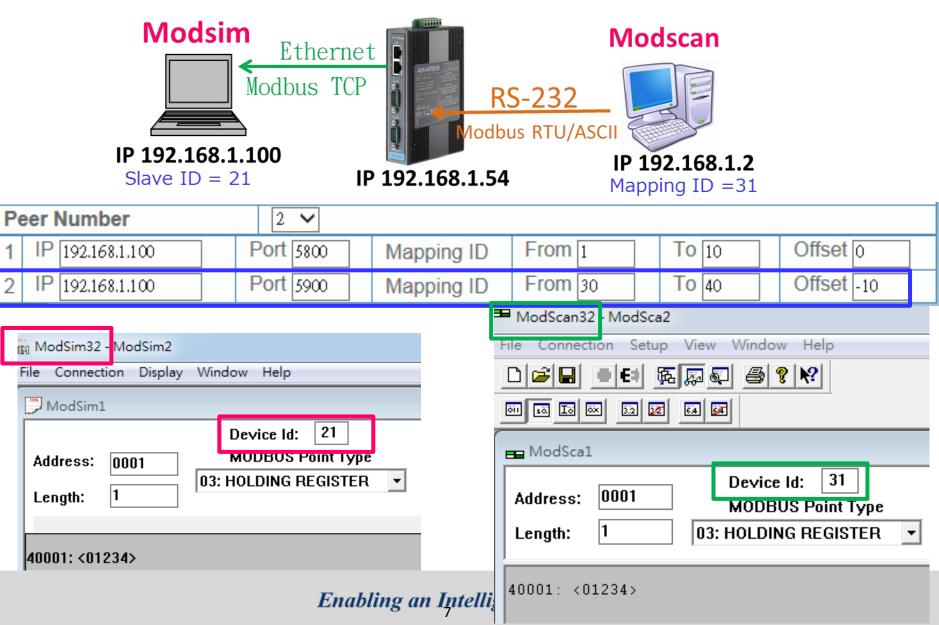
Configure Modbus Master Mode (3/3)

3. After modified the configuration, EKI need to reboot and run the new setting



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Modbus Master Mode



Reference: Modscan/modsim tool

toolkits are available for both modbus master and slave applications. e-mail <u>wince@win-tech.com</u> for details.

ModScan... Modbus Master Data Scanner

ModScan is a Windows application which operates as a modbus master. It allows you to access and change data points in a connected slave device using either the RTU or ASCII Transmission mode. ModScan is ideally suited for quick and easy compliance testing of the modbus protocol and its built-in display of serial traffic allows effective troubleshooting of field connections. The CE version of ModScan operates on any PocketPC running Windows CE 3.00, such as the ComPAQ iPAQ, ComPAQ Aero, HP Jornada, and Casio E-115. ModScan32 is an expanded Win32 version of the application for desktop PC's that allows you to open multiple documents to scan different sets of data points simultaneously. ModScan32 supports direct serial, modem and network connections which conform to the modbus/TCP communications standard as defined by Modicon. Access to modbus data through third-party applications such as Visual Basic or ExCel is provided via built-in Win32 OLE Automation and Database support. A simple-to-use scripting feature enables efficient production testing of modbus slave devices by performing repetitive loops of query/response verification.

<u>Download</u> <u>Demo</u>	Additional Information	/
modscan32.zip	ModScan32	Order : On-Line
modsim32.zip	ModSim32	Orders On-Line
PocketPC Demos	ModScanCE ModSimCE	Order: On-Line

http://www.win-tech.com/html/modbus1.htm

eveloper Kits

Modbus ActiveX Modbus

Source Code

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