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INSTALLER **REFERENCE** GUIDE

Rev 1.2



CM430S RS485 LAN To Ethernet Converter Module



CM430S - RS485 LAN TO ETHERNET CONVERTER MODULE

The CM430S allows you to extend the control panels RS485S LAN across a local network. Table 1: shows the panel and panel firmware which are compatible with the CM430S converter module. MENU 7-7-0, Option 5 (Extend LAN Fail) must be set when using the CM430S.

CM430S Compatibility			
Panels Supported	Version		
Solution 6000	V2.29 or higher		

Table 1: CM430S Compatibility



MENU 7-7-0, Option 5 (Extend LAN Fail) must be set when using the CM430S.

LED Status

The following LED indicators are provided on the CM430S module.

LED	Colour	Activity	Description
Activo	Activo Groop / Pluo	Blue	Data sent from Ethernet to Serial
Active	Green / Blue	Green	Data sent from Serial to Ethernet
	Carrow (Dlass	Blue	Connection Established
	Green/blue	Green	Ethernet Cable connected
Devuer		Off	Power OFF
Power RED	RED	On	Power ON

Table 2: LED Indicators

Initial Setup

Using a stand alone computer (your PC must have an Ethernet port), you can connect your computer directly to the CM430S using a crossover Ethernet cable. Otherwise, connect both the computer and CM430S using straight-through Ethernet cable to a hub or switch.

(Ensure computers adapter is set to the same base address, ie: 192.168.1.1 See page 7 - Windows IP Configuration)

Quick Setup With Fixed IP

The CM430S has the following default settings.

Option	Default Setting
IP Address (Factory)	192.168.1.200
IP Address (Default Switch)	192.168.1.254
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Primary DNS	192.168.1.3
Connection Mode	TCP Server
Connection Port Number	5000
Remote Host IP Address	0.0.0.0

Table 3: Quick Setup With Fixed IP

CM430S Configuration (Point to Point)

Connect a module to your computer and power the module using 12VDC. Open your browser and enter 192.168.1.200 (Factory set) and press [Enter]. If the unit is reset by the user, then its default address will be 192.168.1.254 A window will be displayed prompting you to enter the password (default = 123456). After entering the password, the web browser page will be displayed.



Please do not modify ADVANCED SETTINGS from default values.



CM430S - LAN to Ethernet Interface

Device Information

Device Name	Location 1	Firmware Version	V1. 555	Device MAC	XX-XX-XX-XX-XX
Network Sett	ings				
Device IP	192. 168. 1. 5	Device Port	4196	Device WEB Port	80
Work Mode	TCP Server	Subnet Mask	255. 255. 255. 0	Gateway	192. 168. 1. 5
Destination IP/DNS	192. 168. 1. 5	Destination Port	4196	IP Mode	Static
Advanced Se	ttings				
N0-Data-Restart	Disable	No Data Restart Time	300 5~1270 second	Reconnect-time	12 1~255 second
Modify Web L	ogin Key				
New Key		Input Key Again			
			Submit		

Figure 1: Point to Point - Location 1

	nation				
Device Name	Location 2	Firmware Version	V1. 555	Device MAC	XX-XX-XX-XX-XX
Network Sett	ings	I			1
Device IP	192. 168. 1. 6	Device Port	4196	Device WEB Port	80
Work Mode	TCP Client	Subnet Mask	255. 255. 255. 0	Gateway	192. 168. 1. 5
Destination IP/DNS	192. 168. 1. 5	Destination Port	4196	IP Mode	Static
Advanced Se	ettings	Л	H.		Л
N0-Data-Restart	Disable	No Data Restart Time	300 5~1270 second	Reconnect-time	12 1~255 second
Modify Web I	Login Key	π	Π	·	Л
New Key		Input Key Again			
			Submit		
		Figure 2.	Submit	ion 2	

Logout

The CM430S module at the panel (Location 1) has to be set to 'TCP Server', and the CM430S module at the destination (Location 2) is to be set as 'TCP Client'.

The table below is an example of configuring the Client and Server modules.

Option	Location 1 SERVER	Location 2 CLIENT
Device IP	192.168.1.5	192.168.1.6
Subnet Mask	255.255.255.0	255.255.255.0
Gateway	192.168.1.5	192.168.1.5
Primary DNS	168.95.1.1	168.95.1.1
Work Mode	TCP SERVER	TCP CLIENT
Destination Port	4196	4196
Destination IP/DNS	192.168.1.5	192.168.1.5
IP Mode	Static	Static

Table 4: Example Point to Point Configuration

After all settings have been complete, click 'Apply' and the changes will take effect. Note: It is best to power cycle the module after any changes.

Connection Diagram - Point to Point Configuration

A pair of CM430S modules is required for each link as shown below. Remote locations will require a local power supply wih backup battery to maintain connectivity during power outages. A CM720 1 amp or CM723 5 amp power supply module would be suitable for this task.



Figure 3: Sample Point to Point Wiring



LAN A OUT, LAN B OUT and the Protect Switch are for Future Use

CM430S Star Configuration

An array of 17 x CM430S modules (1xServer, 16x Clients) can be used if more then one location is needed. This configuration will need to go through a LAN switch that has a backup power supply. Each Remote location will require a local power supply with backup battery to maintain connectivity during power outages. A CM720, 1 amp or CM723, 5 amp power supply module would be suitable for this task.

	mation				
Device Name	Location 1	Firmware Version	V1. 555	Device MAC	xx-xx-xx-xx-xx-xx
Network Set	tings				
Device IP	192. 168. 1. 5	Device Port	4196	Device WEB Port	80
Vork Mode	TCP Server	Subnet Mask	255. 255. 255. 0	Gateway	192. 168. 1. 5
Destination	192. 168. 1. 5	Destination Port	4196	IP Mode	Static
Advanced S	ettings	_			
I0-Data-Restart	Disable	No Data Restart	300 5~1270 second	Reconnect-time	12 1~255 second
Modify Web	Login Key	Time			
Vew Key		Input Key Again			
DIGIFLEX	CM430S - L	<i>Figure 4: Samp</i> AN to Ether	<i>ple Star Configuration -</i> net Interface	<i>Location 1</i>	Logout
DIGIFLEX Records	CM430S - L mation	<i>Figure 4: Samp</i>	ple Star Configuration -	<i>Location 1</i>	Logout
DIGIFLEX RECEDENCE Device Inform	CM430S - L mation	Figure 4: Samp	ple Star Configuration - net Interface	Location 1	Logout XX-XX-XX-XX-XX
DIGIFLEX RECEINFORM Device Inform Pevice Name	CM430S - L mation	Figure 4: Samp	ple Star Configuration - net Interface	Location 1	Logout XX-XX-XX-XX-XX
DIGIFLEX Notice Inform Device Name Network Set Device IP	CM430S - L mation Location 217 tings 192. 168. 1. (621)	Figure 4: Samp AN to Ethern Firmware Version Device Port	ple Star Configuration - net Interface V1. 555	Location 1 Device MAC Device WEB Port	Logout XX-XX-XX-XX-XX 80
DIGIFLEX Device Inform Device Name Network Set Device IP Vork Mode	CM430S - L mation Location 217 tings 192. 168. 1. (621) TCP Client	Figure 4: Samp AN to Ethern Firmware Version Device Port Subnet Mask	ple Star Configuration - net Interface V1. 555 4196 255. 255. 255. 0	Location 1 Device MAC Device WEB Port Gateway	Logout XX-XX-XX-XX-XX 80 192. 168. 1. 5
DEVICE Inform Device Name Network Set Device IP Vork Mode Destination P/DNS	CM430S - L mation Location 217 tings 192. 168. 1. (621) TCP Client 192. 168. 1. 5	Figure 4: Samp AN to Ethern Firmware Version Device Port Subnet Mask Destination Port	ple Star Configuration - net Interface V1. 555 4196 255. 255. 255. 0 4196	Location 1 Device MAC Device WEB Port Gateway IP Mode	Logout XX-XX-XX-XX-XX 80 192. 168. 1. 5 Static
Device Inform Device Name Network Set Vork Mode Destination P/DNS Advanced Set	CM430S - L mation Location 217 tings 192. 168. 1. (621) TCP Client 192. 168. 1. 5 ettings	Figure 4: Samp AN to Ethern Firmware Version Device Port Subnet Mask Destination Port	ple Star Configuration - net Interface V1. 555 4196 255. 255. 255. 0 4196	Location 1 Device MAC Device WEB Port Gateway IP Mode	Logout XX-XX-XX-XX-XX 80 192. 168. 1. 5 Static
Device Inform Device Name Network Set Device IP Vork Mode Destination P/DNS Advanced Set 10-Data-Restart	CM430S - L mation Location 217 tings 192. 168. 1. (621) TCP Client 192. 168. 1. 5 ettings	Figure 4: Samp AN to Ethern Firmware Version Device Port Subnet Mask Destination Port No Data Restart Time	ple Star Configuration - net Interface V1. 555 4196 255. 255. 255. 0 4196 300 5~1270 second	Location 1 Device MAC Device WEB Port Gateway IP Mode Reconnect-time	Logout XX-XX-XX-XX-XX 80 192. 168. 1. 5 Static 112 1~255 second
Device Inform Device Name Network Set Device IP Vork Mode Destination P/DNS Advanced Set I0-Data-Restart Modify Web	CM430S - L mation Location 217 tings 192. 168. 1. (621) TCP Client 192. 168. 1. 5 ettings Disable Login Key	Figure 4: Samp AN to Ethern Firmware Version Device Port Subnet Mask Destination Port No Data Restart Time	ple Star Configuration - net Interface V1. 555 4196 255. 255. 255. 0 4196 300 5~1270 second	Location 1 Device MAC Device WEB Port Gateway IP Mode Reconnect-time	Logout XX-XX-XX-XX-XX 80 192. 168. 1. 5 Static 12 1~255 second
Device Inform Device Name Network Set Device IP Vork Mode Destination P/DNS Advanced So I0-Data-Restart Modify Web Jew Key	CM430S - L mation Location 217 tings 192. 168. 1. (621) TCP Client 192. 168. 1. 5 ettings Disable Login Key	Figure 4: Samp AN to Ethern Firmware Version Pevice Port Subnet Mask Destination Port No Data Restart Time	ple Star Configuration - net Interface V1. 555 4196 255. 255. 255. 0 4196 300 5~1270 second	Location 1 Device MAC Device WEB Port Gateway IP Mode Reconnect-time	Logout XX-XX-XX-XX-XX 80 192. 168. 1. 5 Static 12 1~255 second

Option	Location 1 SERVER	Location 2 CLIENT	Location 3 CLIENT	Location 4 CLIENT
Device IP	192.168.1.5	192.168.1.6	192.168.1.7	192.168.1.8
Subnet Mask	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0
Gateway	192.168.1.5	192.168.1.5	192.168.1.5	192.168.1.5
Primary DNS	168.95.1.1	168.95.1.1	168.95.1.1	168.95.1.1
Work Mode	TCP Server	TCP Client	TCP Client	TCP Client
Destination Port	4196	4196	4196	4196
Destination IP/DNS	192.168.1.5	192.168.1.5	192.168.1.5	192.168.1.5
IP Mode	Static	Static	Static	Static

Table 5: Star Configuration Example Settings

Connection Diagram - Star Configuration



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Windows IP Configuration

Click on Start button and choose Settings.

1. Choose Network & Internet.

2. Click on Ethernet -> Change adapter options. ...

3. Click Internet Protocol Version 4 (TCP/IPv4), and then click Properties. ...

Warning:

Before changing any of the numbers, ensure you take note of the original settings, as this will disconnect you from your normal network connection. Digiflex does not take any responsibility for your PC configuration, if you are not experienced in networking, please contact your IT person.

ou can get IP settings assign is capability. Otherwise, you r the appropriate IP settings	ed automatically if your network support need to ask your network administrator
○ Obtain an IP address aut	omatically
Use the following IP addr	ess:
IP address:	192 . 168 . 168 . 10
Subnet mask:	255.255.255.0
Default gateway:	192.168.168.1
Obtain DNS server addre	ss automatically
Use the following DNS set	rver addresses:
Preferred DNS server:	
Alternate DNS server:	

Figure 7: Windows PC IP Config Setup Page

CM430S Reset

The CM430S modules can be reset whilst powered up by using a thin screwdriver and sliding the Reset switch from OFF to ON position, then after 2-3 seconds, back to the OFF position. This will reset the device IP to **192.168.1.254**

CM430S Specifications

Part Number:	CM430S - RS485 LAN To Ethernet Module - Supporting Star Configuration
Operating Voltage:	10.5V D.C - 14.5V D.C. @ 150mA Max
Module Connection: (RS485 LAN)	Ethernet Interface: 10 / 100Base-T, Half / Full Duplex RS485 Signal: 2 wire Data+/-
Operating Environment:	0° to 55°C RH 5 to 80% at 30°C non-condensing.
Certification:	EN55032:2012, EN55024: 2010.A1:2015, EN61000-3-2:2014, EN61000-2-2:2013
Warranty:	3 years from date of manufacture (return to base).

In the interest of ongoing product development this document is subject to change without notice.





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