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MCS-WIRELESS-MODEM-INT

Rev. 1.3 - 07-01-2020



MCS-WIRELESS-MODEM-INT

User Installation

MCS Total Solution for all your Control Needs



Energy Efficient and RoHS Compliant

Contractor (User) Install

SIM Card Installation (NOT INCLUDED)

- 1. Open the SIM cover
- 2. Insert the Standard SIM into the SIM card slot.
- 3. When removing Standard Sim card, the user just presses Standard Sim card in the card slot again and the card will be ejected out.
- 4. When the device is powered on the 3G LED blinks 3 times in succession (every 1-3 seconds) to confirm that there is an actual data connection to the provider. If there is a connection to a provider, but the data is not working (note that this doesn't apply to situations where the carrier actually offers a webpage saying data is not enabled), then the 3G LED will remain off.

Note : MCS-WIRELESS-MODEM-INT DX2100 does not support automatic SIM card hot-swapping and MCS-WIRELESS-MODEM-INT DX2100 must power off for SIM card to be recognized.

Wall Mount Installation

- 1. Find a suitable location.
- 2. Insert screws into the screw holes on the sides. Use a screwdriver to tighten the screws and secure the installation.
- 3. Connect and tighten the SMA antenna onto the device. For a better 3G signal strength, take the actual environmental condition into consideration when finding a mounting location for the device.

IMPORTANT: IF UNIT IS MOUNTED INSIDE AN ENCLOSURE, ANTENNA MUST BE MOUNTED OUTSIDE OF THE ENCLOSURE.

Note: Do not over-tighten the screws or the wall mount screw hole may be deformed.

Power Inputs

- 1. Plug the supplied power supply into the power port on the **MCS-WIRELESS-MODEM-INT DX2100**.
- 2. Connect power supply plug into power source.
- 3. After turning on the MCS-WIRELESS-MODEM-INT DX2100 will make a buzz and the Ready LED on the front panel will light.
 - 1. Install the DIACom software on a computer which is running **MCS-CONNECT**.
 - 2. The software is provided on a USB flash drive in your package. (The DIAcom software can also be found at: http://mcscontrols.com/communications.html#MCS-WIRELESS-MODEM-INT
 - 3. Start the DIACom software
 - 4. LOGIN USING YOUR EMAIL ADDRESS
 - 5. A USER ACCOUNT WAS SETUP FOR YOU AND A PASSWORD WAS SENT TO THAT EMAIL ADDRESS.



1. Next screen shows Secure Tunnel Account on left and what Bound Account is showing.

	DIAcom	Secure	e Tunnel	m	ncs.company	/.dx2100@gmail.co	m⊽ – ×
Secure Tunnel Name	ACCOUNT ┥	Local I	Local IP address DHCP 192.168.18.100 - 192.168.18.200 Create T Static 192 - 168 - 1 - 2 / 255 - 255 - 0				
		Status	Name	SN	Latency	IP Address	Operation
		Online	DX2100_9FC9	DX21000216270059	-	192.168.18.198	
					-		
					Lo	cal IP Address	N/A

2. There are two different ways to perform the Secure Tunnel:

a. DHCP - Default, Obtain an IP address from Cloud automatically when Cloud DHCP function is available.

b. Static - Manually set the IP address, the IP should be in the same subnet with DX device

Note: If you enter an IP address that is used on your network a message will appear.

- 7. Using the DHCP default the following IP address has been assigned.
- 8. Next click 'Create Tunnel' to establish the Secure Tunnel for the computer .

Below screen shows account is now bound to the MCS-MAGNUM at IP address as shown in photo. Note that the screen went from red **Create Tunnel** to blue '**Disconnect**', **also at bottom an IP address shows**.

DIACom	Secure	Tunnel	n	ncs.company	/.dx2100@gmail.co	om⊽ —
ACCOUNT	Local IP	address OHCP	192.168.18.100 - 1 192 - 168 - 18 -	.92.168.18.20 10 / 255 - 2	0 Dis	connect
	Status	Name	SN	Latency	IP Address	Operation
	Online	DX2100_9FC9	DX21000216270059	-	192.168.18.198	

DO NOT START MCS-CONNECT UNTIL YOU HAVE



CREATED THE SECURE TUNNEL

9. Start MCS-CONNECT

- a. Click on 'Setup'
- b. Click on 'Network'

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ile Setup Offline Help							
Communications General Options	Local Network Connect	ions					
Table Options	al	Ethernet					
Extended History Alarm Alerts	Pemote Network Connec	tions					
Schedule Diagnostic Save	Keniote Hetwork Connet						
New Site	-	Connect Remotely					
○ Dialup ○ IP (Internet) ○ IP Lantronix							

- Next screen shows network adapters available:
 Example shows 2) DIACom Ethernet Adapter eth6
- 11. Click on '2) DIACom Ethernet Adapter' and click

- 1. Under 'Local Network Connections'
- 2. Click on 'Ethernet'
- 3. MCS will search for connected Magnum(s)

Options Setup Screen				- 0	×			
Communications Genera	l Tables Network	Extended History	Alarm Alerts					
Show ALL Network Interfaces (Advanced users only)								
	Usable	Network Interface	5					
2) DIACom Ethernet Ada	y controller - etho - / 19. oter - eth6 - / 192.168.18	3.154						
Local Commun	ication Network Interfa	ace Name:	eth6					
Remote Commun	ication Network Interfa	ace Name:	eth6					
	Save							
MCS-Connect 18.22.06 Be	eta			- 🗆	×			
e Setup Offline Help								
	Local Ne	twork Conne	ctions					
Serial Ethernet								
	Remote N	etwork Conn	ections					
Site Name		Net. Interface						
New Site	-	eth6	Connect Re	emotely				
Save Site	O Dialup	• IP (I	internet) O	IP Lantronix				
Delete Site	IP Address:	192.168.	18.154					
Duint	Port Range	5001 to	5020	Default Port Rai	nge			
Print	Site Comments							
Clear								
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🍓 18.22.06 Beta								—	
File Setup Offline Re	set/Clear Workspac	e View Button Bar Ti	me Help Live (Graph <mark>Extende</mark>	d History - Active	ALARM ALE	RTS-INACTIVE		
Disconnect	Scan Gra	ph Transmit Cf	g Receive	Cfg View	v Only Dia	gnostic Save	Print	Graphics	Alarms
Site Info 1 - HAUNI MALAYSIA 85 - CH1-1									
Address	HW Serial #	Cfg Name	Company Name	Unit Model #	Unit Serial #	Installed Date	Cfg Vers.	Firmware V	Cfg Date
192.168.18.101 (1) 020615	HAUNI MALAYSIA	DB MALAY	DCLC450M		11/15/2	17	HVAC 1	01/22/2 •
192.168.18.106 (8	018365	CH1-1	NAPPS	CICB30	1667A-01	07/28/2	17	HVAC 1	04/04/2

MCS-WIRELESS-MODEM-INT WIRING INSTRUCTIONS ETHERNET COMMUNICATION PORT



Example MAGNUM #1 address Static IP: 192.168.18.101 Subnet mask: 255.255.255.0 Default Gateway: 191.168.18.1 TCP/IP Port: 5001

MCS-CONNECT setup to access job site

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Connect to multiple MAGNUMS using an Ethernet hub



and DYNAMIC IP, see below to setup.

(Each MAGNUM must have a unique address.)

To setup using DYNAMIC IP, open MCS-CONNECT;

- 1. Click the tab for 'SETUP'
- 2. Click 'NETWORK'
- 3. Click on 'SHOW ALL NETWORK INTERFACES'
- 4. Click on 'DIACom Ethernet Adapter'
- 5. Save
- Click 'ETHERNET', a unique DYNAMIC IP address will be assigned.

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) Realtsk PCIe GBC Family Controller - ethil - (192,168,10,107) DBACon Ethernet Adapter - ethil - (192,168,10,154	
Local Communication Network Interface Name:	etho
Remote Communication Network Interface Name:	ethó

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