Test the RocketLinx MC5001 RS485 2Wire

Test in RS485 2Wire mode

Equipment required

2 MC5001 units

2 DeviceMaster Serial ports configured for RS485

DeviceMaster driver installed in PC for 2 com ports on one (or two) DeviceMaster units. 2 straight thru cables

connect DeviceMaster port1 to MC5001 #1

connect DeviceMaster port2 to MC5001 #2

(see the document ftp://ftp.comtrol.com/tech_misc/cabling/customcables.pdf to build cable)

	Comtr	rol Drivers Management Console
DeviceMaster	Â	General Dest Cable 22
02 NXP DeviceMaster RTS, 1 Port		RS Mode: 485 (2-wire)
		Override and Lock Baud Rate to: None V Options
O2 NXP DeviceMaster RTS, 1 Port, DB9, 1	-,	
Port 01 (COM5) Port 02 (COM6) Port 02 (COM6) Port 01 (COM7) Port 01 (COM7) Port 02 (COM8) Port 02 (COM8) Port 02 (COM8) Port 02 (COM8) Port 04 (COM7) Port 04 (COM7) Port 05 DeviceMaster RTS, 2 Port, DB9, 1E, D Port 04 (COM7) Port 04 (COM7)	IN	Map 2 Stop bits to 1 Wait on Physical Transmission before Completing Write Emulate Modem Hardware RING Signal Allow Parity Conflict (DeviceMaster 1 Port only) Block Plug-N-Play Search for Attached Serial Device Defaults
Port 02 (COM9)		Clone
🔲 🐜 06 DeviceMaster RTS, 2 Port, DB9, 2E, D	IN	Apply These Settings to All Ports
Port 01 (COM11) Port 02 (COM12) Port 02 (COM12) Port 01 (COM13) Port 01 (COM14) Port 03 (COM15) Port 04 (COM16)	~	Port Name User-Friendly Port Name: Port 01 COM Name: COM5 Renumber All Subsequent Ports Relative to This Port
comtrol Drivers Management Console version 4.05 copyright © Comtrol Corporation. All rights reserved.	Save	Configuration OK Cancel Apply Help

Start in the Comtrol Drivers Management Console to determine the two com ports you will be using In this example we will be using a DeviceMaster RTS 2P 1E with Terminal block serial port connections. In this example this is COM5 and COM6.

Configure both ports for RS485 2Wire Mode.



Both COM5 and COM6 are now set to RS485 2 Wire

Test Terminal

PortVision DX – 🗖							– 🗆 🗙	
File Manage View Tools Help								
Scan Refresh All	Refresh All Scan Network Check for Updates	Upload Reboot Webpag	ge Notes Help	About	exit			
PORTVI	Log File Applications	ac's Stuff [0 / 0] Customize						
IF ORIVI	Options	Test Terminal (WCom2)						
Name : 2) 2 ports	dd notes in A	Port Monitor (PMon2) PuTTY Driver MGT Console Hercules ComSniff AeroAdmin TFTP Firmware Updater UDP Discovery Utility devcom						
	∧ Devic	ce Name	Model	A IP Addr	MAC Address	Software Version	Status	
		 Device 28:00:93 9528 P22 - Com9-10 - Device 29:FF:F6 DC.24 - Com11-12 - Device 2A:FF:F9 8510#1 P7 - Com13-14 - Device 2B:FF:F1 8510#2 P2 	RTS-2P (1E/DR) RTS-2P (2E/DR) UP-2P (DB9/1E/DR) UP-2P (DB9/2E/DR) UP-2P (DB9/1E/DR)	192.168.2.21 192.168.2.22 192.168.2.23 192.168.2.24 192.168.2.25	00:C0:4E:28:00:93 00:C0:4E:29:FF:F6 00:C0:4E:2A:FF:F9 00:C0:4E:2B:FF:F1 00:C0:4E:2A:00:33	NS-Link 11.14 NS-Link 11.11 NS-Link 11.11 NS-Link 11.11 SocketServer 11.11	ON-LINE ON-LINE ON-LINE ON-LINE ON-LINE	
<	`					2) 2 p	ports 1 Ready //	

From PortVision DX, launch Test Terminal (WCom2).

	WCom2 - Test Terminal	- 🗆 ×
<u>F</u> ile <u>V</u> iew <u>H</u> elp		
D ₩ ₩ # ₩ Ø ﷺ === ⊐= ?		
Ready		NUM



Open Ports	x				
Open Ports Select Ports COM1 COM2 COM3 COM4 COM5 COM6 COM6 COM6 COM7 COM8 COM9 COM10 Select Range For example: 3-15,21,45,51-56,74 TCP/IP Sockets IP Address	Cancel Settings				
From Port To Port Secure Data (SSL)					

8			WCom2 - Te	est Terminal		- 🗆 ×
File	Port Settings View Window	w Help				
		• _ ¥		[
	1	COM5			COM6	
		Toolbar				
	~	Status Bar				
		Loopback				
		Open / Close				
	~	RTS				
		DTR				
		Send				
		Class Casada				
		Clear Screen Change View				
		Port Settings				
		Close	~			v .
0	PEN [[RTS DTR [] [Receiv	ing	//.	OPEN	DTR [[[Receiving	1.
Rea	dy					NUM

Right Click in COM5 and select the "Send" option.

🖸 WCom2 - Test Terminal – 🗖 🗙					
Eile Port Settings View Window Help					
· [2] 莊 逝 卷 逝 《 200 == 12 %		¥			
COM5	X	COM6			
	< >	ABCDE ABCDEF ABCDEFG ABCDEFGH ABCDEFGHI ABCDEF ABCDA ABCDEF ABCDA ABCDE ABCDA ABCDA ABCDE ABCDA	~		
OPEN RTS DTR Sending & Receiving	//.	JOPEN RTS DTR Receiving	11.		
Ready			NUM //		

Data should begin flowing in the COM6 window.

1			WCom2 - T	est Terminal	- 🗆 ×
File	Port Settings View	Window Help			
	₩₩₩₩ <i>₩</i>				
		COM5		COM6	
	✓ Tor Sta Loc Op ✓ RT ✓ TT ✓ T ✓ Ser Cle Ch Por Clo	olbar tus Bar opback ien / Close S R R nd ceive ceive ceive car Screen ange View rt Settings ose	~	ABCDEFGHIJKLMNOP ABCDEFGHIJKLMNOPOR ABCDEFGHIJKLMNOPOR ABCDEFGHIJKLMNOPORS ABCDEFGHIJKLMNOPORST ABCDEFGHIJKLMNOPORSTU ABCDEFGHIJKLMNOPORSTUV ABCDEFGHIJKLMNOPORSTUVWX ABCDEFGHIJKLMNOPORSTUVWXY ABCDEFGHIJKLMNOPORSTUVWXYZ A BB ABC ABC ABC ABCD ABCDEFGHIJKLMNOPO ABCDEFGHIJKLMNA	*
OPE	N [[RTS DTR [[[]	Sending & Receiving.		OPEN [[RTS DTR [[[Receiving	11.
Ready					NUM

Once data is moving in COM6 Right Click in COM5 and remove the checkmark on the "Send" Option Data should stop moving in the COM6 window.



In the COM6 window

Right Click in COM6 and select the "Send" option.



Data should now be flowing in the COM5 window.

This concludes the test. If you need to test other modes such as RS422 or RS232, build the appropriate cable, configure the serial ports in Comtrol Drivers Management Console and test using the same process in Test Terminal (WCom2).