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Media Pro 4000 Brief                Date: March 27th 2001
  File: ICM-SEM-4020_RS232_DF1_A-B_ML1500_BR032701.pdf
Module: ICM-4020 and SEM-4020
 Title: Interfacing A-B MicroLogix PLC to the ICM or SEM via RS232 DF1
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Media Pro 4000 ICM-4020 Port 2 Pinout (ICM Port 3 & SEM-4020 would be similar)

ICM/SEM Signal	Harting DIN 48F Pinout		ICM/SEM Port	RJ-11-6 Jack Pinout	Device Pinout		Device
CTS<	d	6	2	3	RTS		DE9M:
TXD>	d	8	2	4	RECV	3	Allen Bradley
RXD<	b	6	2	5	XMIT	2	MicroLogix
RTS>	b	8	2	2	CTS		1500
Ground	z	6	2	6	Ground	5	PLC
Power	z	8	2	1	Power		Ch 0

Connects to Allen-Bradley Micro Logix PC programming cable 1761-CBL-PM02

CTS<	d	6	2	3	RTS		DE9F:
TXD>	d	8	2	4	RECV	2	Allen Bradley
RXD<	b	6	2	5	XMIT	3	MicroLogix
RTS>	b	8	2	2	CTS		1500
Ground	z	6	2	6	Ground	5	PLC
Power	z	8	2	1	Power		Ch 1

Connects directly to Channel 1 port (2nd serial) of Allen-Bradley Micro Logix (1764-LRP)

Cat 5 unshielded twisted pair cable is recommended for distances over 50 feet (tested to 1000')

Specifications subject to change at any time.

Anitech Systems Inc., 25021 Anza Drive, Valencia, CA 91355 USA
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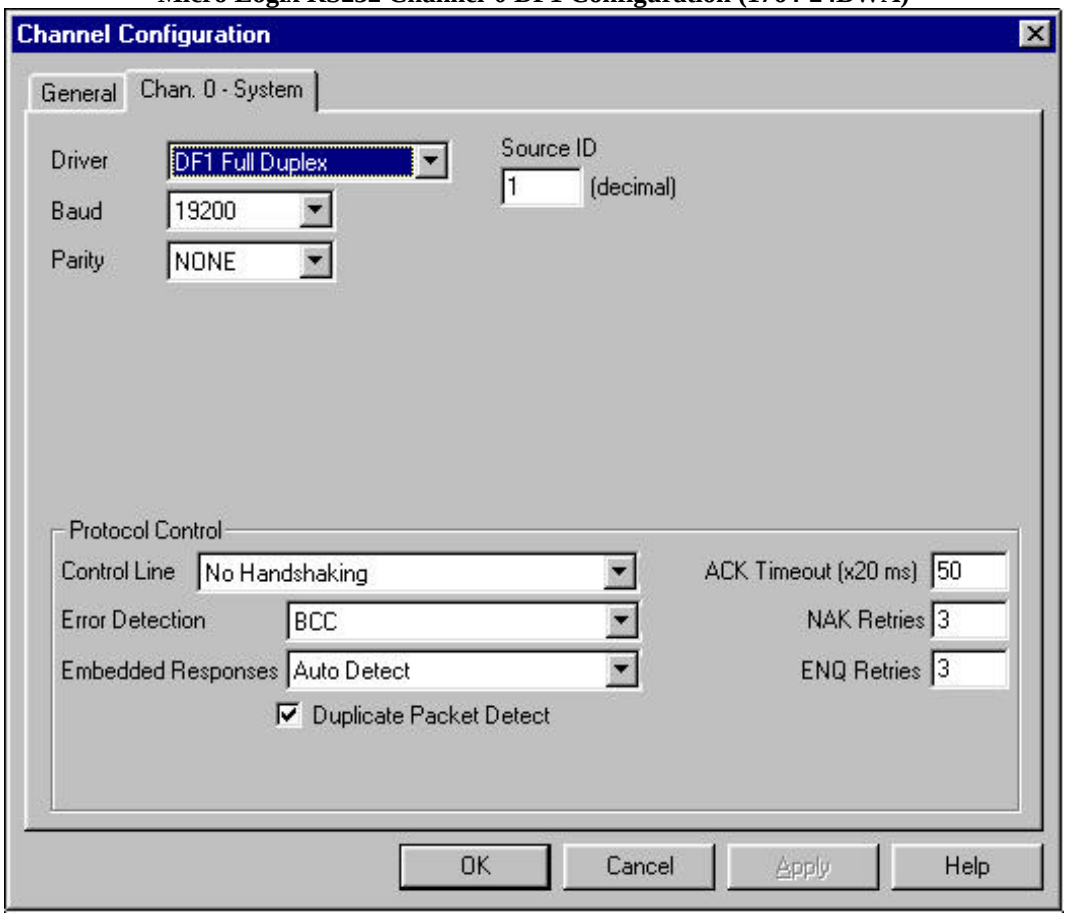
PC RSLinx RS232 DF1 Configuration

Note: You will need to Auto-Config initially and after reconfiguring the ML1500 Ch0

(Make these setting always match the current configuration in the ML1500)
Driver: **RS232 DF1 Devices**
Device: SLC/**ML**/PV (**Ch0**)
Baud Rate: **19,200** (must be 19.2K for Media Pro DF1 Master Protocol)
Parity: **None** (must be None for Media Pro DF1 Master Protocol)
Stop Bits: **1** (must be 1 for Media Pro DF1 Master Protocol)
Station #: **00** (This is the PC's station #)
Error Checking: **BCC** (must be BCC for Media Pro DF1 Master Protocol)
Protocol: **Full Duplex**

*note: Channel 1 configuration will be similar

Micro Logix RS232 Channel-0 DF1 Configuration (1764-24BWA)

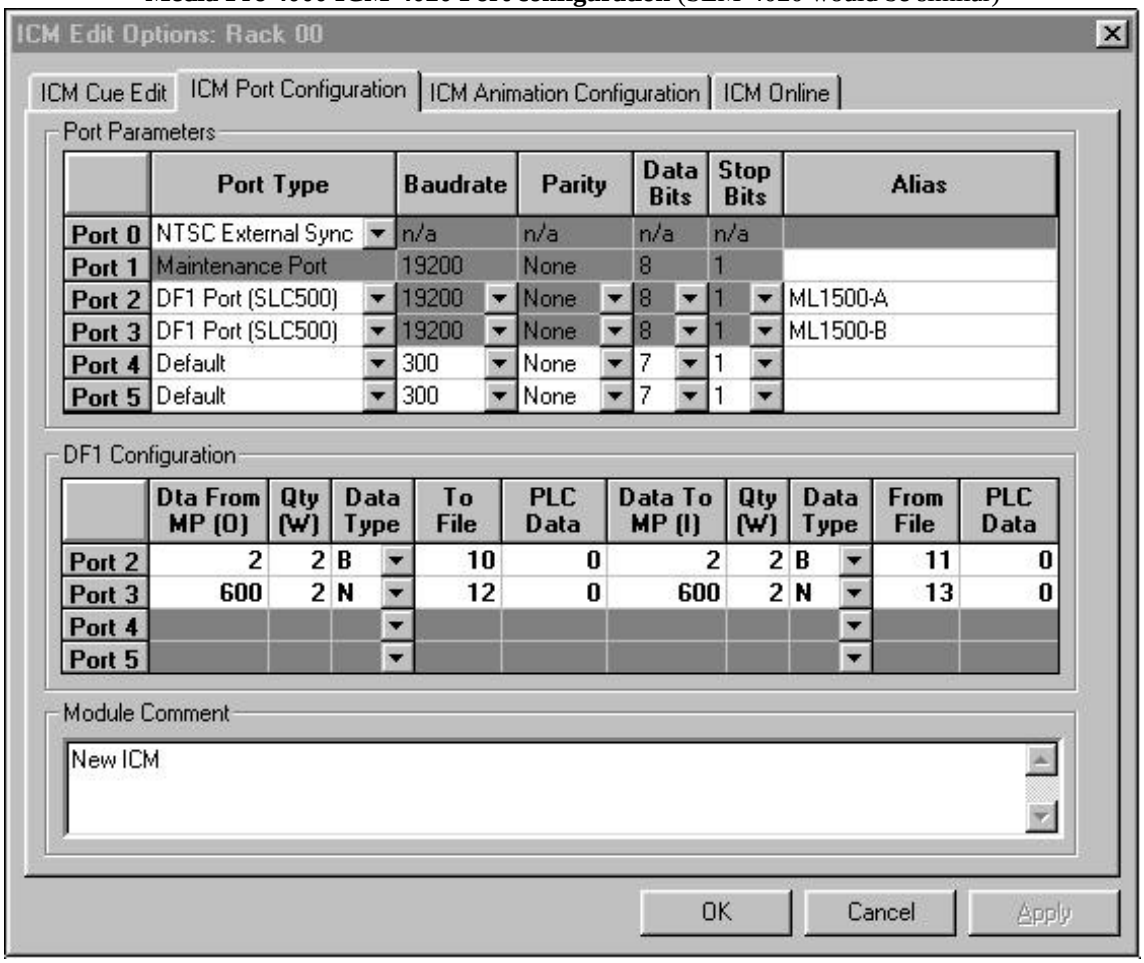


Required fields & formatting will vary with software.

Driver: **DF1 Full Duplex**
Baud Rate: **19,200** (must be 19.2K for Media Pro DF1 Master Protocol)
Parity: **None** (must be None for Media Pro DF1 Master Protocol)
Source ID: **00** (This is the ML1500's station #)
Control Line: **No Handshaking** (must be No Handshaking for 3 wire RS232 interface)
Error Detection: **BCC** (must be BCC for Media Pro DF1 Master Protocol)
Embedded Responses: **Auto Detect**
Duplicate Packet Detection: **Enabled**
Timeout(s): **1000 ms** (1 second)
Retries: **3**
Delay: **0 ms**
EOT Suppression: **Disabled**

*note: Channel 1 configuration will be similar

Media Pro 4000 ICM-4020 Port configuration (SEM-4020 would be similar)



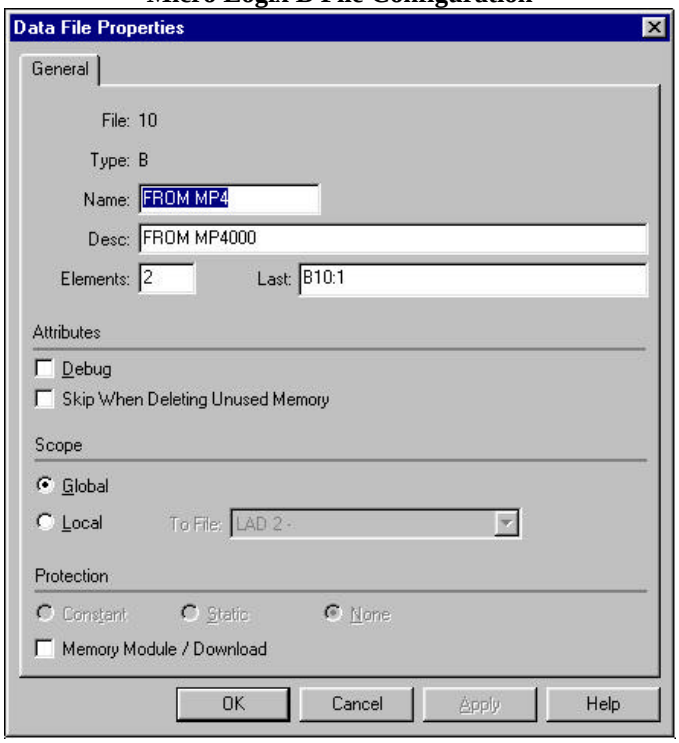
Port 2 and/or 3 can be used for DF1, only one port is necessary per PLC

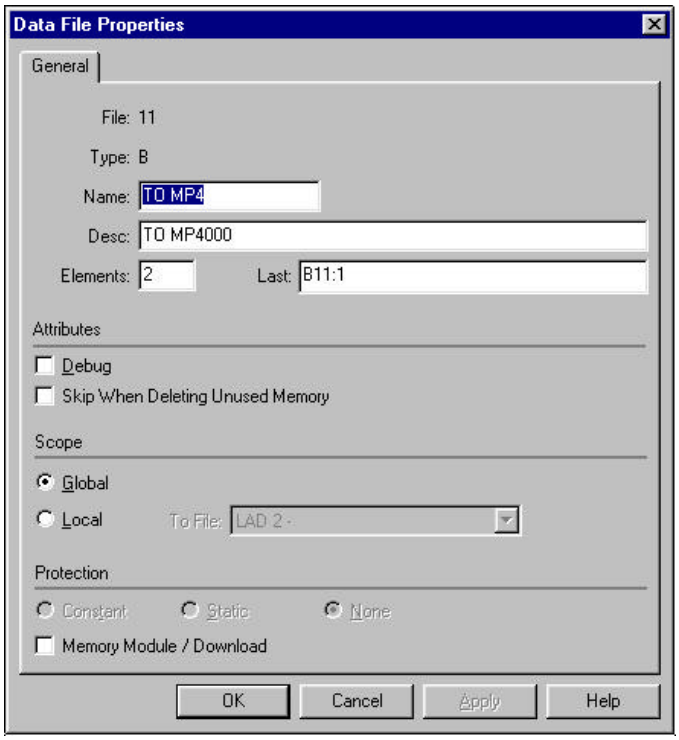
Port Type: **DF1 SLC 500** (not DF1 PLC5, not DF1 Slave)
Baud Rate (19.2k), Parity (None), Data Bits (8), Stop Bits (1), Error Correction (BCC): All Hard Coded

Data From Media Pro Output (channel base): **2** (choose the 1st output ch you want to send to the PLC)
quantity of contiguous sending Words: **2** (64 max, the PLC file must be the same size or larger)
Data Type: **B** (set to the desired file type in the PLC)
To File: **10** (set to the desired file number in the PLC)
PLC Data: **0** (offset into PLC file)
Data To Media Pro Input (channel base): **2** (choose the 1st input ch you want to receive from the PLC)
quantity of contiguous received Words: **2** (64 max, the PLC file must be the same size or larger)
Data Type: **B** (set to the desired file type in the PLC)
To File: **11** (set to the desired file number in the PLC)
PLC Data: **0** (offset into PLC file)

Note: Maximum Data transfer rate is approximately 10 times a second.
The quantity of words sent & received may slow this down.

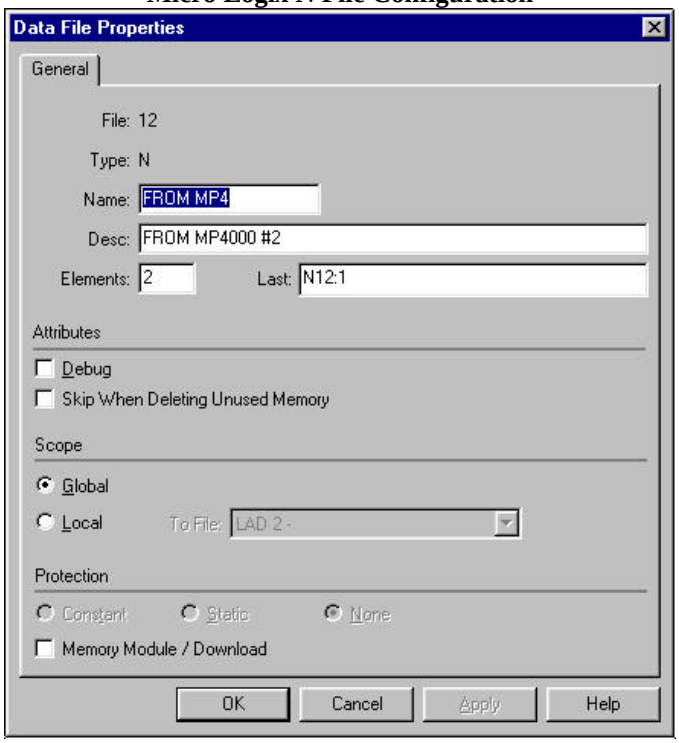
Micro Logix B File Configuration

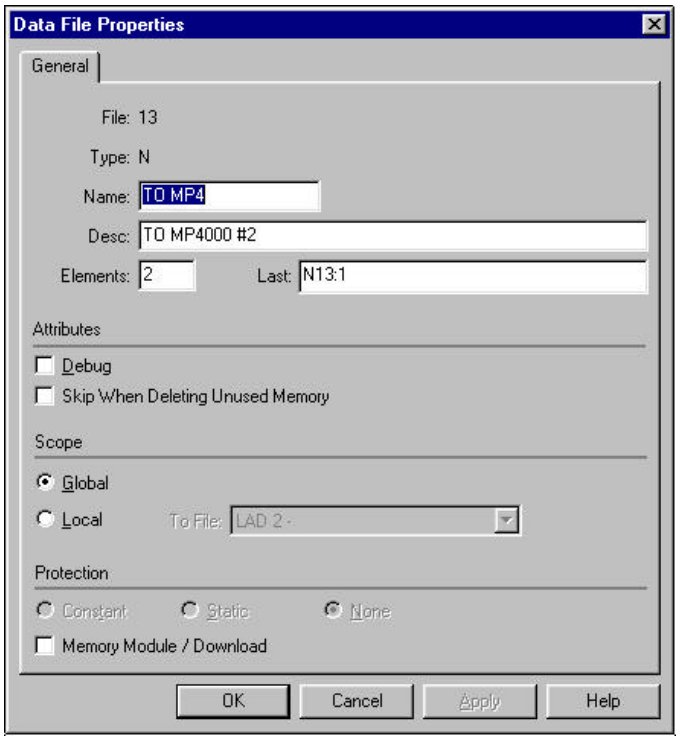




Note: The number of elements (Words) must be equal to or larger than the size requested by the MP.
{or the PLC will get errors, the data will be undependable, and the communications ragged}

Micro Logix N File Configuration





Note: The number of elements (Words) must be equal to or larger than the size requested by the MP.
{or the PLC will get errors, the data will be undependable, and the communications ragged}