

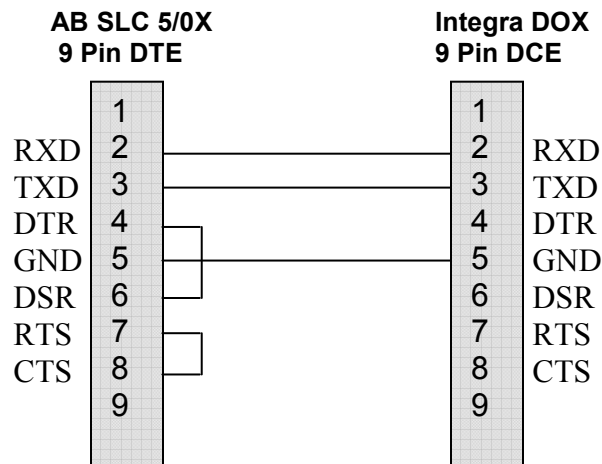
### TSAN 014 INTEGRA TR AB SLC 5 Master/Slave Dataradio Technical Support

For additional assistance: [www.dataradio.com](http://www.dataradio.com)

Within the U.S.A.	1-800-992-7774	International	1-507-833-8819
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**Product:** Integra-TR™

**Application:** Provide interface information necessary for the configuration of the Integra-TR wireless modem to a Rockwell Allen Bradley SLC 5/0X PLC. Figure 1 shows the wiring information for this application.



**Figure 1:** Wiring Interface for AB SLC 5/0X to Dataradio Integra.

### Set-up for AB SLC5/0X PLC

**Note:** In a DF1 Half-duplex configuration there can only be one master, the other SLC 5/0Xs must be configured as DF1 Half-duplex Slave.

### SLC 5/0X as a Master Configuration

- Driver: DF1 Half-duplex Master
- Baud: 9600 bps
- Parity: None
- Stop Bits: 1
- Node Address: 1 (dependent upon application)

Figure 1: Allen Bradley SLC 5/0X Channel Configuration

### SLC 5/0x Channel 0 Configuration

**Channel Configuration**

General | Chan. 1 - System | Chan. 0 - System | Chan. 0 - User

Driver: DF1 Half Duplex Master | Node Address: 1 (decimal)

Baud: 1200

Parity: NONE

Stop Bits: 1

**Protocol Control**

Control Line: Half Duplex without Continuous Carrier | ACK Timeout (x20 ms): 50

Error Detection: CRC | RTS Off Delay (x20 ms): 3

Polling Mode: Msg, Don't allow Slaves to Initiat | RTS Send Delay (x20 ms): 8

Duplicate Packet Detect | Message Retries: 3

Reply Msg. Timeout (x20 ms): 1 | Pre Transmit Delay (x1 ms): 0

OK Cancel Apply Help

#### Protocol Control

- Control Line: Half duplex without continuous carrier
- Error detection: CRC
- Polling Mode: Msg. Don't allow Slaves to Initiate
- Duplicate Packet Detect: disabled
- Reply Msg. Timeout (x 20 ms): 1
- ACK Timeout (x 20 ms): 50
- RTS Off Delay (x 20 ms): 8
- Message Retries: 3
- Pre Transmit Delay: 0

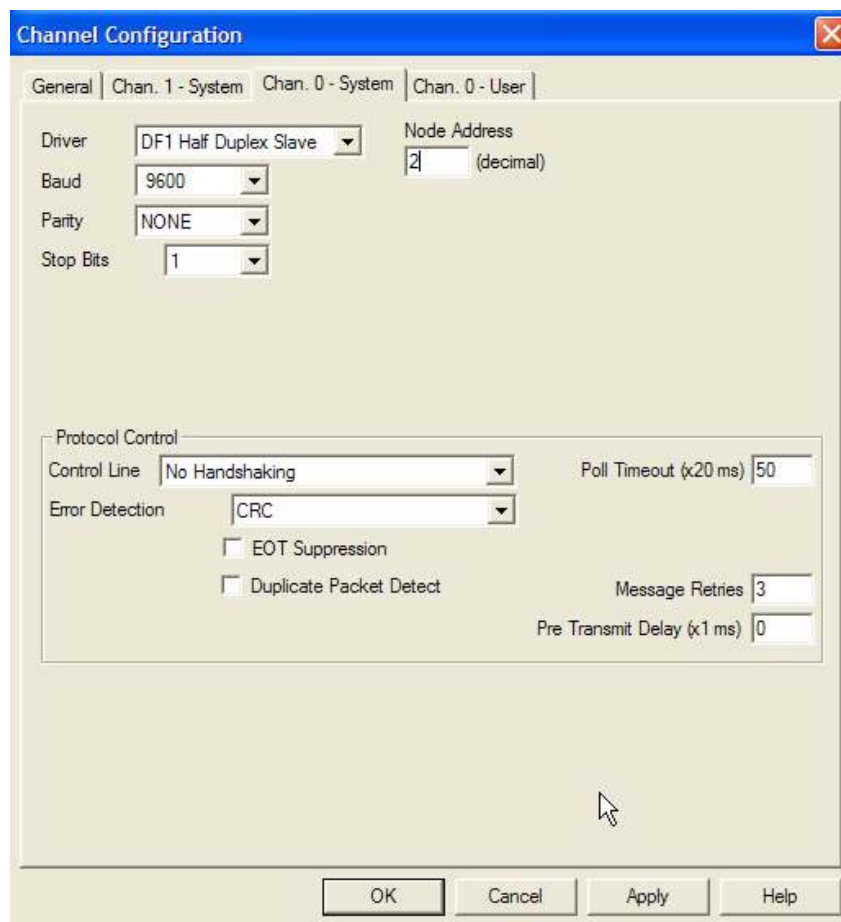
### SLC 5/0X as a Slave Configuration

#### Configuration

- Driver: DF1 Half-Duplex Slave
- Baud: 9600 bps
- Parity: None
- Stop Bits: 1
- Node Address: 2 (dependent upon application)

**Figure 2:** Allen Bradley SLC 5/0X Channel Configuration

### SLC 5/0X Channel 0 Configuration



The screenshot shows the 'Channel Configuration' dialog box with the following settings:

- General:** Driver: DF1 Half Duplex Slave; Node Address: 2 (decimal)
- Serial Settings:** Baud: 9600; Parity: NONE; Stop Bits: 1
- Protocol Control:** Control Line: No Handshaking; Error Detection: CRC; EOT Suppression: ; Duplicate Packet Detect: ; Poll Timeout (x20 ms): 50; Message Retries: 3; Pre Transmit Delay (x1 ms): 0

Buttons at the bottom: OK, Cancel, Apply, Help

### Protocol Control

- Control Line: No Handshaking
- Error Detection: CRC
- EOT Suppression: disabled
- Duplicate Packet Detect: disabled
- Poll Timeout (x 20 ms): 50
- Message Retries: 3
- Pre Transmit Delay (x 1 ms): 0

### Setup for Integra-TR : Master and/or Slave for SLC 5/0X interface

Using the Integra-TR Field Programming Software, locate the parameters tab. Each of the three Field Programming Software tabs should be configured as follows.

#### Modem Tab

- Modem Type: fixed as per the attached unit
- Short ID: user assigned
- Serial No.: factory assigned
- Comment: user supplied comment
- Compatibility: Integra-TR
- Data Delivery: all or selective
- Sleep Mode: disabled (usually)
- Network Speed: equal to or greater than data speed
  
- Station ID CWID: special use-refer to manual
- TX Online Diagnostics: checked (on)
- CWID Interval: refer to manual
- Extended Preamble: default is 5
- Suspend Period: power savings mode
- Activity Timeout: power saving mode

#### COM/Analog Tab

- TX Control: DOX
- DCD Control: switched
- DTE Baud Rate: 9600 (or as required)
- DTE Data Format: 8 bits, no parity, 1 stop (required set-up by AB DF-1 protocol)

- Data Forward Timer: normal
- Break: Ignore break
- Deferred Rx-Data Delivery: 0 (typically not required for DF-1 protocol)
- Analog 1: Input is default; TX controlled fan in base station or fan equipped TX module
- Analog 2: Input is default

### Radio Tab

- Radio: displays unit model
- Range: displays unit range
- Channel: half (12.5 kHz)
- Tune Range: low Rx
- Transceiver Type: transceiver (always choose this setting)
- Carrier Sense & TX Timeout: user programmable
- Disable TX w/ Carrier Present: disabled
- Radio Frequencies: displays user frequencies
- TX Power: max 255 = 5 watts (this number is non-linear; 128 is not exactly 2.5 watts)

Always refer to the Integra-TR Installation Manual (p/n 001-4008-101) for proper set-up. Factory defaults are recommended for startup settings.