



Application Note #1226

Cables & Interconnection for the DMC-21x2

Introduction

This note describes the recommended cables and interconnection for use with the DMC-21x2 controller. Please review the figure below.

Note 1: The ICM-2900 interconnect module is recommended. For other methods of interconnection, such as using the ICM-1900, please contact Galil.

Note 2: If the DMC-21x2 is purchased with the DB-28040 extended I/O module, these signals can be connected to the CB-50-80 change board, and then to the IOM-1964-80 opto-isolated I/O module. A Grayhill or OPTO-22 module rack can also be used, see Application Note 5450 for more details.

Note 3: The DMC-21x2 can communicate via RS-232 or 10Base-T or both simultaneously. The figure below illustrates both connections but only one is required for communication.

DMC-2112 to DMC-2142:

NAME	TYPE	PURPOSE
CABLE-9PIN-D (1 Cable Required)	6 Ft., Serial Communication Cable	Connects serial port to computer
CABLE-100-xM (1 cable required) (xM refers to cable length)	1 Meter, 2 Meter, or 4 Meter, 100 Pin High Density Cable	Connects the DMC-21x2 to an ICM-2900 and provides all connections for Axes A-D except auxiliary encoder inputs C+D.
ICM-2900 (1 Required)	Interconnect Module	Provides screw terminals for access to all signals from the controller except Auxiliary Encoder Inputs C+D
CB-50-80	Change board for	Note: This board is only

(1 optional)	connecting DB-28040 signals to 80-pin cable.	required if the DB-28040 Extended I/O will be used.
CABLE-80-xM (1 cable optional) (xM refers to cable length)	1 Meter or 4 Meter 80 Pin High Density Cable	Connects the DMC-21x2 to an IOM-1964-80 Note: This cable is only required if the DB-28040 Extended I/O will be used.
IOM-1964-80 (1 optional)	Opto-Isolation Module for Extended I/O. Connects to CABLE-80	Provides opto-isolation for extended I/O and allows easy access via screw terminals. Note: This module is only required if the DB-28040 Extended I/O will be used.

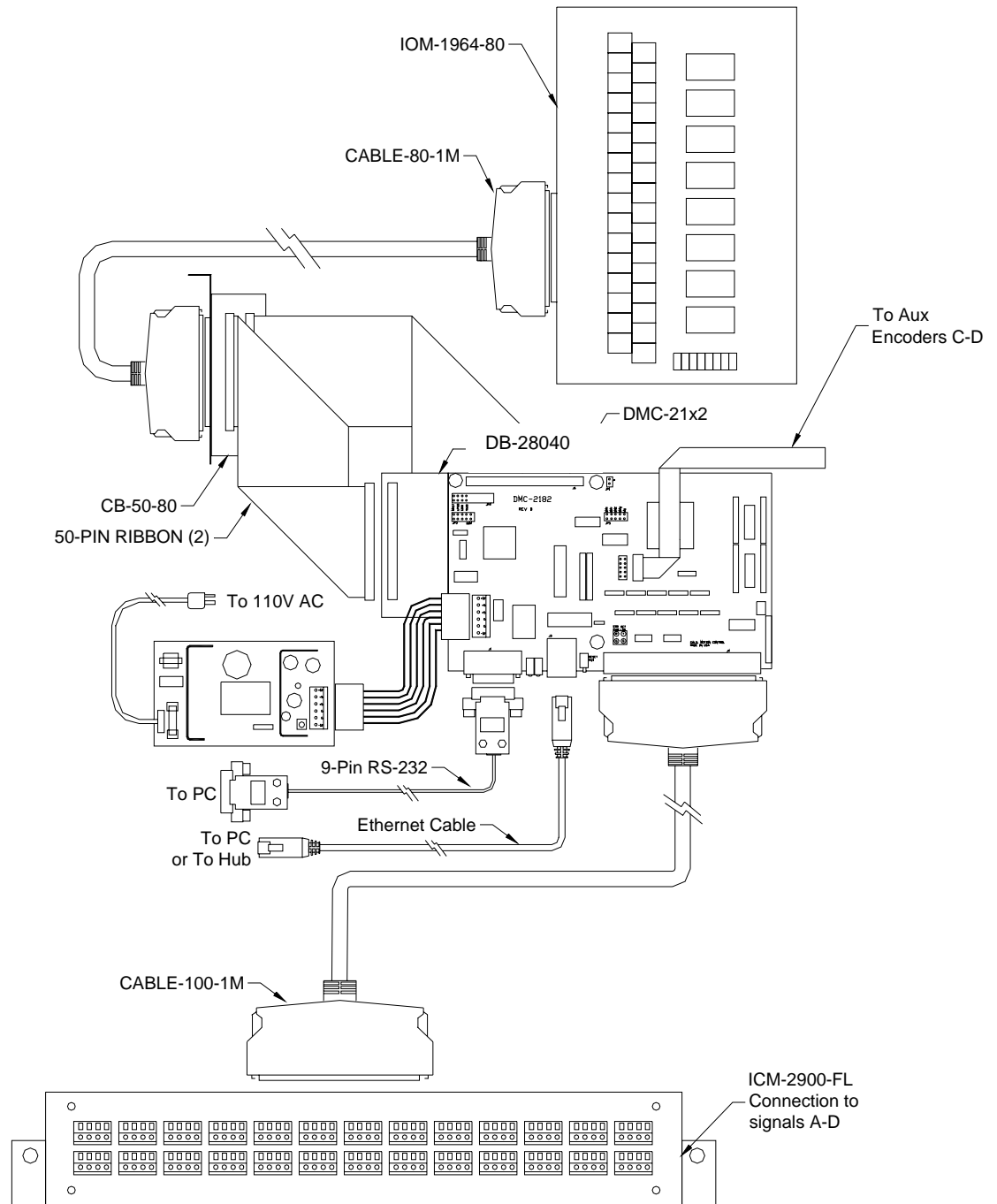


Figure (1)- 2112-2142 Connections

DMC-2152 to DMC-2182:

NAME	TYPE	PURPOSE
CABLE-9PIN-D	6 Ft., Serial	Connects serial port to

(1 Cable Required)	Communication Cable	computer
CABLE-100-xM (2 cables required) (xM refers to cable length)	1 Meter, 2 Meter, or 4 Meter, 100 Pin High Density Cable	1st Cable Connects the DMC-21x2 to an ICM-2900 and provides all connections for Axes A-D except auxiliary encoder inputs C+D. The 2 nd Cable Connects the ICM-2900 to the DMC-21x2 and provides all connections for Axes E-H except auxiliary encoder inputs G+H.
ICM-2900 (2 Required)	Interconnect Module	The 1 st ICM-2900-FL provides screw terminals for access to all signals for Axes A-D except the Auxiliary Encoder Inputs C+D. The 2 nd ICM-1900-FL provides screw terminals for access to all signals for Axes E-H except the Auxiliary Encoder Inputs G+H.
CB-50-80 (1 optional)	Change board for connecting DB-28040 signals to 80-pin cable.	Note: This board is only required if the DB-28040 Extended I/O will be used.
CABLE-80-xM (1 cable optional) (xM refers to cable length)	1 Meter or 4 Meter 80 Pin High Density Cable	Connects the DMC-21x2 to an IOM-1964-80 Note: This cable is only required if the DB-28040 Extended I/O will be used.
IOM-1964-80 (1 optional)	Opto-Isolation Module for Extended I/O. Connects to CABLE-80	Provides opto-isolation for extended I/O and allows easy access via screw terminals. Note: This module is only required if the DB-28040 Extended I/O will be used.

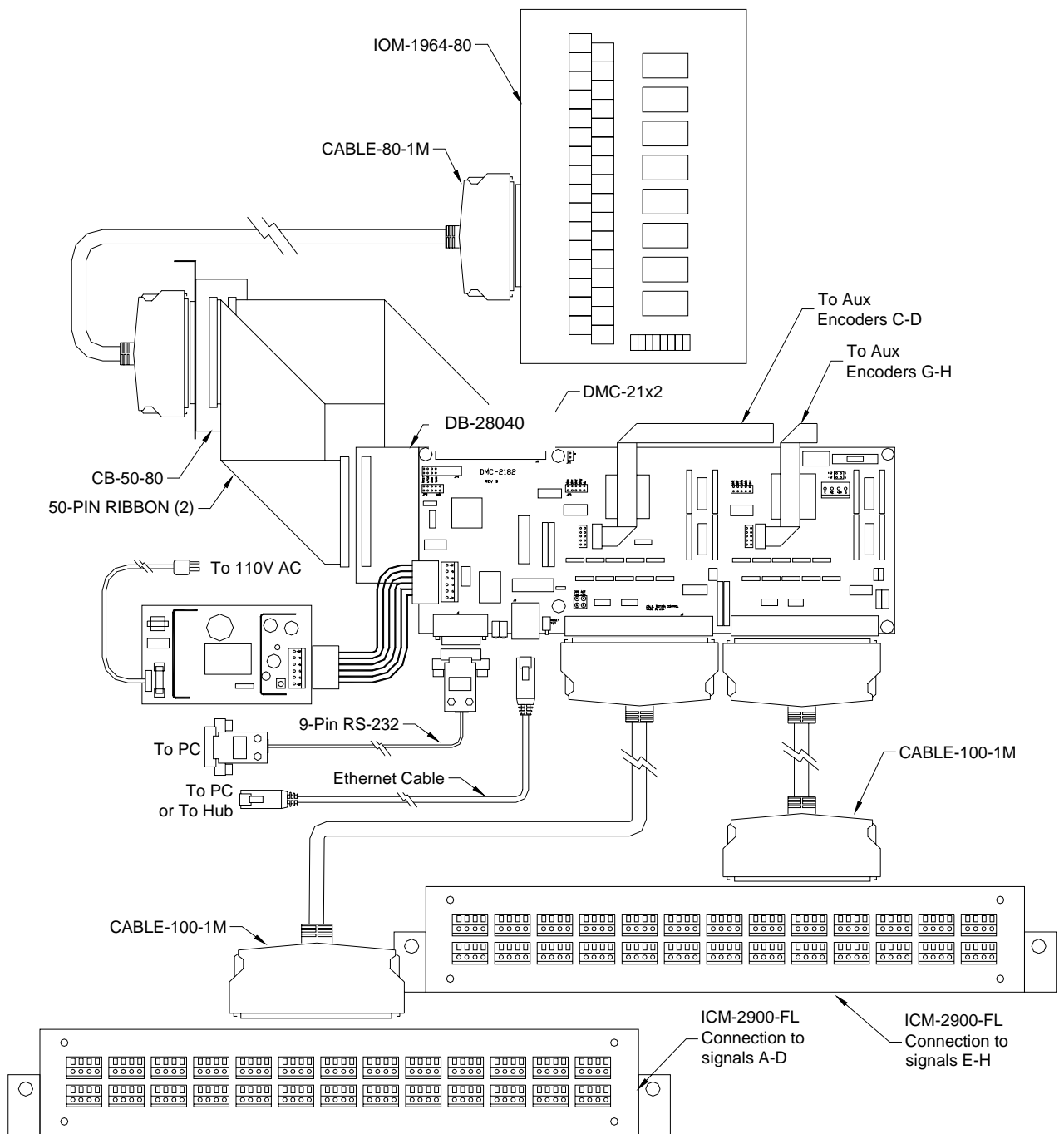


Figure (2)- 2152-2182 Connections