

APPLICATION NOTES

Analog Output Module:
3809X (16 Channels)

AND

GMI Termination Board:
TB-D5016-TRI-010 (16 Slots) through
I/O CABLE: 4X00227-5xx

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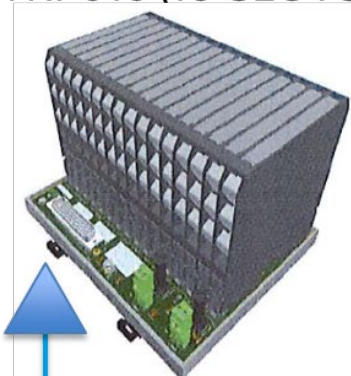
1. INTRODUCTION

WITH SINGLE CHANNEL GMI MODULES

AO CARD 3809X (16 CH)

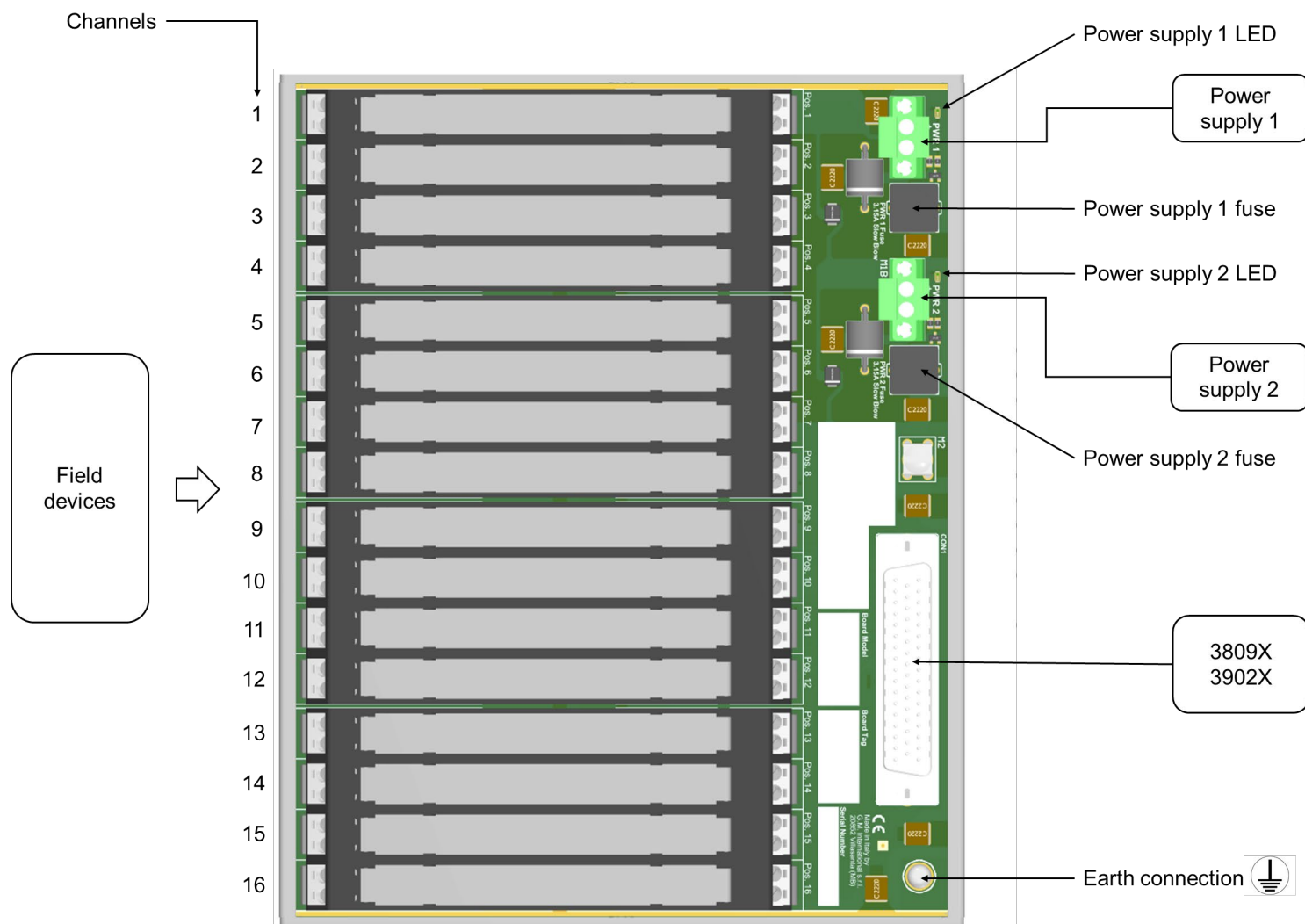


TB-D5016-TRI-010 (16 SLOTS)



I/O CABLE: 4X00227-5xx

TB-D5016-TRI-010 has 16 slots available for GMI modules



2. EQUIPMENT TO BE USED

2.1 Tricon CX I/O Module

3809X –Analog Output Module, 16 Channels

2.2 GMI Termination Boards

TB-D5016-TRI-010 SIL3 Termination Board 16 Positions for Tricon CX 3809X (Single Channels).

2.3 GMI Interface Modules

2.3.1 ANALOG OUTPUT – AO IS

MOD.	DESCRIPTION	L.F. DET.	L.F. TRANSP.	FIELD	SIL	HART	REMARKS	ZONE2 /DIV2
D5020S	ISOLATING DRIVER	YES	NO	4-20 MA	2	YES		YES

2.3.2 ANALOG OUTPUT – AO NIS

MOD.	DESCRIPTION	L.F. DET.	L.F. TRANSP.	FIELD	SIL	HART	REMARKS	ZONE2 /DIV2
D6020S	ISOLATING DRIVER	YES	NO	4-20 MA	2	YES		NO
D6001S	PASS THROUGH MODULE	YES	YES	PASS THROUGH	3	YES		YES

3. TRICON CX – System Configuration and Remarks

- Install the 3809X in proper slot.
- Connect the I/O cable(s) between FET and GMI Termination Board.
- Power Monitor supported on 3809X using TB-D5016-TRI-010 and I/O cable 4X00227-5xx
 - Field Power Monitor 1 = Enabled
 - Field Power Monitor 2 = Enabled
- Configuration for AO channel :
 - Point Option = Used
 - Field Fault Mon. = Disable

4. TERMINATION BOARD CONNECTION & SETUP

- **TB-D5016-TRI-010** has NO Hardware Switch Setting.
- Connect the I/O Cable between FET and GMI termination board.
- Connect the Power Supply 24VDC to Terminals Supply 1 (+,-) and Supply 2 (+,-).

5. GMI MODULE SETTINGS AND CONFIGURATION

5.1 GMI Modules Switch Settings

TB-D5016-TRI-010	No Hardware Setting
D5020S / D6020S	SW1, Factory Default, 2 ON, 1-3-4 OFF, Short Circuit Fault Detection < 50 Ohm
D6001S	No Setting

Above switch settings refer to the interface between GMI Modules and Triconex CX I/O module. Additional settings might be considered depending on field specific requirements; please refer to GMI Data Sheets and Instruction Manuals for further details.

5.2 GMI Configurations and Remarks

- Load Fault (Open and Short Circuit) is detected by the module D5020s (D6020S) but not transferred to the AO channel of 3809X. Field fault alarm is available at terminals 3-4 of the GMI module; Load Fault (Open circuit) is detected by AO Channel of the 3809X.

6. REFERENCE DOCUMENTS

6.1 Triconex

Document No.	Title
9791042-002	Tricon™ CX Products Addendum to Tricon User Guides

6.2 G.M. International

Document No.	Title
DTS 0811	TB-D5016-TRI-010 Datasheet
DTS 0281	D5020 Datasheet
ISM 0118	D5020 Instruction & Safety Manual
DTS 0810	D6001 Datasheet
ISM 0386	D6001 Instruction Manual
ISM 0384	D6001 Safety Manual