

TECHNICAL DATASHEET #TDAX140700C 6 Port Ethernet Switch P/N: AX140700C

Features:

- 12V, 24Vdc input power (nominal)
- Optional accessory input switch connection
- 6 ports Ethernet (10/100 Mbps) for multiple Ethernet devices on a machine
- 2 power outputs (Vps) to power external devices
- LED indicators
- Surge, Reverse polarity, input overvoltage, input undervoltage, and output overcurrent protection
- IP67
- Suitable for high vibration and shock environments
- CE mark
- cURus to UL60950
- EN60950-1
- Suitable for applications -3048 m below sea level to +4572 m above sea level

Applications:

• Off-highway equipment, mining equipment

Description: The Ethernet Switch operates as an unmanaged switch that is capable of handling communication of 6 different Ethernet capable devices. The device can be utilized to reduce machine cabling. Each port can communicate up to 100mbps and has LED indicators showing the status of the ports. This module can be powered through either the power input connector, or through port 1. It can also power two external devices through ports 2 and 3, connecting them to the input power. Each of these two ports has over current protection that triggers at 1A.

Ordering Part Numbers: 6 port Ethernet Switch: AX140700C



Technical Specifications:

Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on https://www.axiomatic.com/service/.

Input Specifications

Power Supply Input - Nominal	12V, 24Vdc nominal (836VDC power supply range)				
Protections	Surge and reverse polarity protection are provided. Input overvoltage, input undervoltage and output overcurrent protection are provided.				
Accessory Switch Input	Provided 0-36Vdc Switch enabled > 2.0 Vdc Switch disabled < 0.8 Vdc The input accessory switch can shut down the device and Port and 3 power sourcing. If power is applied through port 1, the input accessory switch is ignored. NOTE: The Accessory Switch Input should be connected to Power + to enable Power IN from the DT04-3P connector (Port 7).				
Power LED	RED ON = Power ON				

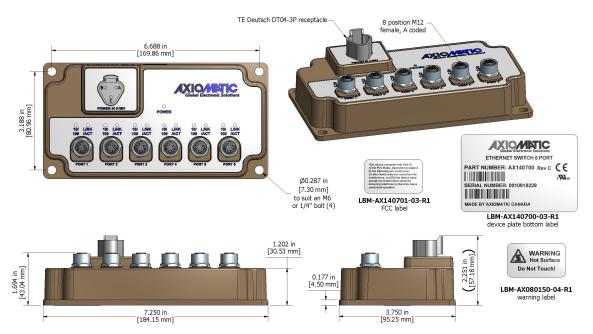
Output Specifications

Power	Power output is available from Ports 2 and 3. 936Vdc (Vps) 1.4 A current maximum Limiter threshold is 1.5A
	Reaction time 12-18 mSec.

Communications

Ethernet	6 ports (Ethernet 802.3, 802.3u, 802.3x) 10/100 Mbit Ethernet compliant Auto-MDIX LAN 10/100 Base-T Up to 100m transmission distance 10 or 100 Mbps transmission speed	
LEDs	2 per port GREEN LINK/ACT: ON means connection (LINK) Flashing means activity (ACT) Transmission Speed: 100 Mbit/s = ON 10 Mbit/s = OFF	

Dimensional Drawing:



General Specifications

Quiescent Current Draw	47 mA @ 24Vdc					
Operating Conditions	-40 to 65 °C (-40 to 149 °F)					
Weight	1.25 lb. (0.56 kg)					
Protection	IP67					
Compliance	FCC Part 15 CE marking EMC Directive RoHS Directive EN60950-1 cURus to UL60950					
Vibration	Random Vibration: 6.86 Grms peak Sinusoidal Component: 8.9 G peak					
Shock	50 G half sine pulse, 6 x 6-20ms					
Atmospheric	Tested from 571.6 hPA to 1437.5 hPA @ 30 °C and 40% Humidity (Simulates -3048 m below sea level to +4572 m above sea level)					
Enclosure and Dimensions	See dimensional drawing. Cast aluminum, anodized					
Installation	The device should be installed after a protective power supply to avoid damage from load dump voltage fluctuations.					
Electrical Connections – Ports 1-6	6 CONEC M12 8-pin connectors (A-coded), P/N: 43-01332 (Connectors 1-6) Port 1: Power In, Ethernet 1 PiN# 0 - Description 1 Power GND 3 Power GND 4 TX- 5 RX+ 6 TX+ 7 Power IN 8 RX- 0 Output 1 Power Out, Ethernet 2 Pot 2: Power Out, Ethernet 2 Pot 3: Power Out, Ethernet 3 1 Power GND 3 Power GND 4 TX- 5 RX+ 6 TX+ 7 Power OUT 8 RX-					
	Port 4: Ethernet 4 Port 5: Ethernet 5 Port 6: Ethernet 6 PIN# Description 1 Not Used 2 Not Used 3 Not Used 4 TX- 5 RX+ 6 TX+ 7 Not Used 8 RX-					

Electrical Connection – Port 7	1 DT04-3	3P connector (Connector 7)			
	Port 7: Power In				
	PIN#	Description			
	A	Power IN			
	В	GND			
	С	Accessory Switch IN (Connect to Power + to enable power input via the DT04-3P connector or Port 7.)	B C C		

Form: TDAX140700C-06/29/23