

INDUSTRIAL AUTOMATION PRODUCT

3624

16-Point 24 VDC Supervised Digital Output Module

Triconex 3624 is a 16-point 24 VDC supervised digital-output module for Tricon safety systems. It uses opto-isolated, commoned, self-protected TMR outputs and is documented with the 9662-610 termination panel.

IDENTITY	VERIFIED VALUE
Manufacturer	Triconex
System family	Tricon v9-v10 digital output
Part number	3624
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Triconex product record.

PARAMETER	TECHNICAL VALUE
Module type	TMR digital output
Output voltage	24 VDC
Output points	16
Output arrangement	Opto-isolated, commoned, supervised
Protection	Self-protected
Compatible termination panel	9662-610
Panel current limit	16 A maximum
Required load	Load at every point; 470 ohm, 10 W resistor if no field load

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Tricon main and I/O chassis
Companion hardware	9662-610 commoned digital-output termination panel
Field connection	24 VDC field supply and supervised loads
Primary system function	Drives sixteen supervised 24 VDC digital-output points
Controlled acceptance duty	Emergency shutdown and trip-valve outputs

3

System Role and Architecture

Triconex 3624 is a 16-point 24 VDC supervised digital-output module for Tricon safety systems. It uses opto-isolated, commoned, self-protected TMR outputs and is documented with the 9662-610 termination panel.

FUNCTION 1

Drives sixteen supervised 24 VDC digital-output points

FUNCTION 2

Uses opto-isolated, commoned output channels in a TMR Tricon architecture

FUNCTION 3

Interfaces to the documented 9662-610 digital-output termination panel

FUNCTION 4

Reports missing-load conditions for controlled field commissioning

Matched system components

- Tricon main and I/O chassis
- 9662-610 commoned digital-output termination panel
- 24 VDC field supply and supervised loads
- Tricon v9-v10 configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Tricon main and I/O chassis
Companion hardware	9662-610 commoned digital-output termination panel
Field connection	24 VDC field supply and supervised loads
Primary system function	Drives sixteen supervised 24 VDC digital-output points
Controlled acceptance duty	Emergency shutdown and trip-valve outputs

4

Applications and Engineering Context

Emergency shutdown and trip-valve outputs

Drives sixteen supervised 24 VDC digital-output points

Fire-and-gas final-element actuation

Uses opto-isolated, commoned output channels in a TMR Tricon architecture

Burner-management shutdown circuits

Interfaces to the documented 9662-610 digital-output termination panel

Supervised solenoid and relay outputs

Reports missing-load conditions for controlled field commissioning

TECHNICAL NOTE

Confirm the 9662-610 pairing, commoned power polarity and load at every point before energization; prove the missing-load diagnostic and a controlled output response before release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3624 / 3624 recorded
Physical interface	Tricon main and I/O chassis
Companion check	9662-610 commoned digital-output termination panel
Functional proof	Drives sixteen supervised 24 VDC digital-output points
Application test	Emergency shutdown and trip-valve outputs

5

Engineering Precautions

1

Verify the complete 3624 marking and assigned Tricon output slot before removal.

2

Isolate commoned 24 VDC power and prove the connected safety loads de-energized.

3

Confirm 9662-610 compatibility and keep the panel within its 16 A total-current limit.

4

Preserve the numbered 1-16 channel identity and documented PWR+ / PWR- polarity.

5

Install a field load at every point; use the documented 470 ohm, 10 W resistor when no load is present.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3625	Supervised Digital Output Module	View Triconex 3625 page
Triconex 3664	Dual Digital Output Module	View Triconex 3664 page
Triconex 9662-610	Digital Output Termination Panel	View Triconex 9662-610 page
Triconex 3703E	Analog Input Module	View Triconex 3703E page
Triconex 3511	Analog Input Module	View Triconex 3511 page
Triconex 3704E	Analog Input Module	View Triconex 3704E page
Triconex EMPII 3006	Main Processor Module	View Triconex EMPII 3006 page
Triconex 9853-610	Termination Panel	View Triconex 9853-610 page

MANUFACTURER SOURCE RECORD

Tricon Systems Technical Product Guide

9791007-013, Product Specifications pp. 19, 26; Field Terminations Guide 9700052-018 pp. 106-109

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

