

Honeywell 8C-TDODB1

Redundant DO IOTA / Product dashboard

This consolidated record keeps Honeywell 8C-TDODB1 identity, technical limits, applications, precautions and acceptance evidence on one review surface.

IDENTITY
Honeywell 8C-TDODB1

PRODUCT ROLE
Redundant DO IOTA

PLATFORM
Experion Series 8 Digital Output

CONTROL BASIS
Exact evidence plus installed-system record

Exact model	8C-TDODB1
Spare part number	51307151-175
Output channels	32
Output type	24 Vdc source
Configuration	Redundant
IOTA size	12 inch

The dashboard places 8C-TDODB1 identity, operating role and maintenance boundaries in one review surface for the Experion Series 8 Digital Output installation.

Dashboard boundary

This overview supports identification and maintenance planning; it does not declare compatibility with a neighboring model or approve a redesign.

Honeywell 8C-TDODB1

Redundant DO IOTA / Technical matrix

Exact model	8C-TDODB1
Spare part number	51307151-175
Output channels	32
Output type	24 Vdc source
Configuration	Redundant
IOTA size	12 inch
Companion IOM	8C-PDODA1
Channel grouping	Four groups of eight
Module coating	Coated
Safe value	User configurable HOLD or SHED behavior

DATA USE

Values support exact-model identification and configuration review.

LIMIT CONTROL

Electrical, software and loading limits remain subject to the installed design.

RECORD SOURCE

Honeywell Series 8 I/O Modules Specification

REVISION NOTE

Experion Series 8 I/O specification

Honeywell 8C-TDODB1

Redundant DO IOTA / Application architecture

Redundant solenoid banks

Maintains a documented 24 Vdc output path through paired modules.

Motor-control commands

Drives grouped interposing devices from protected source outputs.

Critical valve manifolds

Provides 32 bussed outputs with a redundant IOTA arrangement.

High-availability package I/O

Uses paired output modules and recorded safe values.

Input to decision	Exact label plus manufacturer evidence
Installed context	Rack, terminal, network, project and connected process
Change control	Approved scope and retained configuration baseline
Proof	Diagnostic state plus witnessed functional result

Within the Experion Series 8 Digital Output context, 8C-TDODB1 must be reviewed together with its assigned project data, field interfaces and the maintenance acceptance record.

Honeywell 8C-TDODB1

Redundant DO IOTA / Risk and decision register

PRIMARY RISK

A mismatch between the 8C-TDODB1 label and the installed redundant do iota record.

CONFIGURATION RISK

Loss of the 8C-TDODB1 project, mapping, wiring or interface baseline.

SELECTION RISK

Treating another Experion Series 8 Digital Output item as automatically equivalent to 8C-TDODB1.

RELEASE RISK

Returning 8C-TDODB1 to control before diagnostics and functional response are witnessed.

Decision register

8C-TDODB1 51307151-175: how many bussed 24 Vdc outputs terminate on the IOTA?

The redundant IOTA supports 32 source-output channels.

8C-TDODB1 51307151-175: is this the non-redundant IOTA?

No. 8C-TDODB1 is the redundant 12-inch version; 8C-TDODA1 is the non-redundant 9-inch version.

8C-TDODB1 51307151-175: what behavior applies on communication loss?

The user-configured output behavior can hold the last value or shed to a configured safe value.

8C-TDODB1 51307151-175: how is field protection checked?

Inspect group protection and prove that a faulted channel is detected without disturbing unaffected outputs.

8C-TDODB1 51307151-175: which output module is the documented companion?

The Series 8 specification pairs the IOTA with 8C-PDODA1 digital-output modules.

8C-TDODB1 51307151-175: how are the channels grouped?

The 32 outputs are arranged as four groups of eight channels.

8C-TDODB1 51307151-175: what must be captured before replacement?

Record both IOM identities, channel loads, group supplies, safe values and the as-found output state.

8C-TDODB1 51307151-175: what completes redundant commissioning?

Verify both module states, controlled failover behavior, all required output responses and the final diagnostic record.

Decision closeout

Approve the 8C-TDODB1 decision register only when identity, configuration, diagnostics and observed process behavior tell one consistent story.

Honeywell 8C-TDODB1

Redundant DO IOTA / Canonical record and support

Canonical identity	Honeywell 8C-TDODB1
Product name	Redundant DO IOTA
Family	Experion Series 8 Digital Output
Selection boundary	Exact identity; no neighboring-model inference
Release boundary	Installed record plus witnessed functional proof

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

Honeywell 51303979-550 Advanced I/O Link Interface Board

[View Honeywell 51303979-550 Advanced I/O Link Interface Board page](#)

Honeywell 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA

[View Honeywell 8C-TDOD51 Thirty-Two-Channel Digital Output IOTA page](#)

MANUFACTURER EVIDENCE RECORD

Honeywell Series 8 I/O Modules Specification

Experion Series 8 I/O specification

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

Send the exact model, quantity, destination and requested condition for a quotation.

