



Toshiba SRT012

TOSDIC-CIE DS Resistance-Temperature Input Module

Product scope

- Acquires four mutually isolated three-wire RTD input channels.
- Supports independently configured Pt100 and JPt100 sensors.
- Processes resistance through excitation, isolation, V/F conversion and CPU scanning.
- Communicates with the intelligent I/O system through redundant RS-485 buses.

Manufacturer source

Toshiba TOSDIC-CIE DS Operation Manual, system component table 2.18 and SRT012 internal circuit.

The enclosed record and retained manufacturer pages identify the exact product and explain its function, operating principle, application and critical matching requirements.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Toshiba SRT012	

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Toshiba SRT012

TOSDIC-CIE DS Resistance-Temperature Input Module

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Module role	Resistance-temperature input module
Base card	UIOU59; two SRT012 modules per documented base-card arrangement
Input points	4
Channel isolation	Each input point isolated
Sensor wiring	Three-wire RTD
Selectable sensors	Pt100 (Pt385) and JPt100 (Pt3916), configurable independently by point
Data update cycle	186 ms at 50 Hz filter or 159 ms at 60 Hz filter
Internal communications	Redundant RS-485 I/O buses

Official references

- Toshiba TOSDIC-CIE DS Operation Manual, system component table 2.18 and SRT012 internal circuit.
- Toshiba official control-system download portal:
<https://www.global.toshiba/ww/products-solutions/smart-manufacturing/controller/download.html>

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Measurement function

SRT012 acquires resistance-temperature signals for the TOSDIC-CIE DS intelligent I/O arrangement and converts four field RTD channels into digital process values.

Operating principle

A controlled excitation current is applied to each three-wire RTD. Resistance detection and the analog V/F conversion path determine the sensor value, while the three-wire connection compensates for lead resistance.

Channel processing

An analog multiplexer and internal CPU sequence the four isolated channels. The selected 50 or 60 Hz filter determines the documented update cycle, and channel data is exchanged over redundant RS-485 buses.

Application

The module is used for plant temperature measurement where Pt100 or JPt100 sensors are connected to legacy Toshiba DPCS/TOSDIC installations, including process vessels, rotating equipment and utility systems.

Replacement boundary

Confirm the UIOU59 base card, channel sensor type, three-wire terminal assignment, configured filter and engineering scaling. Do not substitute the similarly named STC012 thermocouple module.



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