EXACT-MODEL ENGINEERING SUMMARY

Siemens 39RTMCAN

Resistance Temperature Module

Siemens 39RTMCAN is an APACS+ resistance temperature module. Its RTM module type maps to RIC resistance-input and RTD-input channel types in the DP/IO configuration.

SYSTEM CONTEXT APACS+

Verified highlights

- APACS+ resistance temperature module
- RTM module type in the DP/IO mapping
- RIC resistance-input channel designation
- RTD-input channel designation

Functional signal path

FIELD / SYSTEM INPUT

39RTMCAN occupies the RTM module role in the APACS+ architecture.

EXACT-MODEL INTERFACE

RIC is the published resistance-input channel type for an RTM.

INTERNAL PROCESSING

RTD is the published RTD-input channel type for an RTM.

CONTROL-SYSTEM RESULT

The DP/IO SDB calculator assigns 638 bytes to an RTM module instance.

Verified technical matrix

Product designation	Module Resistance Temperature - APACS+
Control-system family	APACS+
Module type acronym	RTM

DP/IO module size	638 bytes
RIC channel type	Resistance Input Channel for RTM
RTD channel type	RTD Input Channel for RTM

Engineering boundary

Only the values shown in the exact-model source set are stated. Final settings, wiring, firmware, companion devices and safety functions must be matched to the installed system before energization.

Interfaces and system relationships

INTERFACE 1

39RTMCAN occupies the RTM module role in the APACS+ architecture.

INTERFACE 2

RIC is the published resistance-input channel type for an RTM.

INTERFACE 3

RTD is the published RTD-input channel type for an RTM.

INTERFACE 4

The DP/IO SDB calculator assigns 638 bytes to an RTM module instance.

INTERFACE 5

Field circuits must be reconciled with the exact installed APACS+ drawings.

INTERFACE 6

Rack, backplane and connector identity must be taken from the physical system record.

INTERFACE 7

Channel database assignments must be archived before module service.

INTERFACE 8

No QUADLOG or suffixed 39RTMCAN data is transferred to this unsuffixed model record.

Where the module is used

APACS+ temperature acquisition

Provides the documented RTM role for resistance and RTD input channel types in an APACS+ process-control configuration.

Legacy APACS+ maintenance

Supports exact-model identification and controlled replacement while preserving installed channel and rack records.

DP/IO database preparation

Uses the published RTM module type and RIC or RTD channel mappings when reviewing a Siemens DP/IO Bus Link database.

Migration evidence capture

Provides a bounded record of the installed RTM identity, field circuits and database assignments before a modernization project.

Engineering checks and diagnostic decisions

1. Module not recognized: compare rack, slot and APACS+ database assignment before replacing hardware.
2. One channel fails: inspect the field circuit, terminal and configured RIC or RTD type.
3. Several channels fail: check common rack, connector and database conditions first.
4. Scaling mismatch: restore the archived channel engineering configuration instead of guessing a range.
5. Resistance reading mismatch: separate field-circuit resistance from module or database behavior using an appropriate reference.
6. RTD reading mismatch: verify the field circuit and exact project configuration without importing another model's wiring data.
7. DP/IO database issue: confirm the RTM module type and published 638-byte module-size entry.
8. After correction, repeat all configured channel tests and retain the measured results.

Evidence ledger

SOURCE 1	Siemens APACS+ and QUADLOG Product Line Phase Out Announcement, Appendix A, exact 39RTMCAN designation.
SOURCE 2	Siemens PCS 7 APACS+ DP/IO Bus Link V2 documentation, RTM module size and RIC/RTD channel mappings.

Engineering FAQ

Q1 What is Siemens 39RTMCAN?

It is an APACS+ resistance temperature module.

Q2 Which system uses Siemens 39RTMCAN?

It is used in the APACS+ control-system architecture.

Q3 Which channel types are associated with Siemens 39RTMCAN?

The RTM module type maps to RIC resistance-input and RTD-input channel types.

Related products

Verified related products on ApterPower

Siemens 39MBXNAN 16180-1/17

APACS+ M-Net interface component

View Siemens 39MBXNAN 16180-1/17

Siemens 6ES7314-6BH04-0AB0

SIMATIC S7-300 compact CPU

View Siemens 6ES7314-6BH04-0AB0

Siemens 6ES7315-2EG10-0AB0

SIMATIC S7-300 PN/DP CPU

View Siemens 6ES7315-2EG10-0AB0

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Share the exact 39RTMCAN nameplate, application and required quantity for a model-specific quotation.