

SC-UCNN11

Redundant ControlEdge RTU Controller

Honeywell SC-UCNN11 is a redundant ControlEdge RTU controller used in paired remote-automation installations that require controller availability.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

ControlEdge RTU

PART

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PRODUCT OVERVIEW

Honeywell SC-UCNN11 is a redundant ControlEdge RTU controller used in paired remote-automation installations that require controller availability.

1

Provides redundant RTU processing

2

Coordinates primary and secondary controllers

3

Maintains remote communications

4

Supports external I/O expansion

SYSTEM COMPONENTS

Matched SC-UCNN11 controller

Redundant RTU backplane

Independent 24 Vdc feeds

ControlEdge I/O expansion

TECHNICAL DATA

PARAMETER	VALUE
Controller configuration	Redundant
Rated supply	24 Vdc +/-25%
Input range	18 to 30 Vdc
Supply ripple	120 mVpp maximum

PARAMETER	VALUE
Input current	1.3 A maximum at 30 Vdc with 9 I/O modules
Power without expansion	5.76 to 6.72 W
Power with expansion	6.96 W

TECHNICAL NOTE

Confirm controller pairing, independent supply paths and redundancy status before transferring the active role or loading a revised application.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant pipeline RTUs

Provides redundant RTU processing

Critical remote compressor sites

Coordinates primary and secondary controllers

Water transmission stations

Maintains remote communications

Unattended production facilities

Supports external I/O expansion

PRODUCT PRECAUTIONS

- 1 Verify the complete SC-UCNN11 marking and its assigned ControlEdge RTU position before work.
- 2 Isolate the applicable power and field energy before disconnecting SC-UCNN11.
- 3 Protect SC-UCNN11 connectors and electronic assemblies with approved ESD controls.
- 4 Record the installed wiring, channel assignment and configuration before replacement.
- 5 Match Matched SC-UCNN11 controller and Redundant RTU backplane to the documented system arrangement.
- 6 Commission SC-UCNN11 with controlled status, signal and diagnostic checks.
- 7 Retain the final redundant pipeline rtus functional-test result in the maintenance record.

ENGINEER FAQ

Q1 Does SC-UCNN11 match Matched SC-UCNN11 controller in a Redundant pipeline RTUs installation?

Verify the complete SC-UCNN11 marking, the documented ControlEdge RTU position and the installed Matched SC-UCNN11 controller before fitting the assembly.

Q2 How should SC-UCNN11 be wired when it must provides redundant rtu processing?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for SC-UCNN11; then continuity-test the affected path.

Q3 Which ControlEdge RTU records should be captured before removing SC-UCNN11?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with SC-UCNN11 before disconnection.

Q4 What controlled test confirms that SC-UCNN11 can coordinates primary and secondary controllers?

Apply the approved field or simulated stimulus, observe the ControlEdge RTU indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Redundant RTU backplane condition should be checked when SC-UCNN11 reports an abnormal state?

Check the Redundant RTU backplane supply, seating and connection first, then compare channel diagnostics with the recorded SC-UCNN11 baseline.

Q6 Can SC-UCNN11 be moved directly into Critical remote compressor sites without validating ControlEdge I/O expansion?

No. Confirm the ControlEdge I/O expansion, revision, connection scheme and ControlEdge RTU configuration before transferring SC-UCNN11 to that duty.

Q7 What maintenance evidence is required after SC-UCNN11 is used for Water transmission stations?

Retain the nameplate record, corrective action, final diagnostics and a controlled water transmission stations functional-test result for SC-UCNN11.

Q8 How should SC-UCNN11 be returned to service in Unattended production facilities?

Restore power under control, verify maintains remote communications, exercise the intended signal path and release SC-UCNN11 only after the ControlEdge RTU remains in its approved operating state.

SOURCE Honeywell ControlEdge RTU Specifications | CE03-100 R174

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