UR9UH

01 / Product identity and function

UR Version 7 Relay CPU Module

General Electric UR9UH is an offered UR-family relay CPU module. GE identifies UR9U as a version 7 loose CPU module and type U as the mixed fiber/copper Ethernet and RS485 communication option; the terminal H is retained as part of the offered complete code.

Platform role

Relay processing and communication

Network arrangement

Independent fiber and copper paths

Serial integration

Station equipment communication

Exchange focus

Firmware, relay settings and hardware revision

Installed-system context

GE release notes define CPU type U with one RS485 channel, two 100Base-FX multimode SFP/LC Ethernet ports and one 100Base-T SFP/RJ45 port. The three Ethernet ports have independent MAC and IP addresses. These are type-U capabilities, not a claim that every field-fitted SFP is present in a quoted loose module.

Controller platform reference: GE Multilin UR. Match the complete CPU code, relay firmware and fitted media.

System and supply context

Use with a compatible GE Multilin UR relay chassis and version-matched firmware.

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02 / Technical data and limits

CPU family	UR version 7	**CPU type**	U
RS485 channels	1	**100Base-FX Ethernet ports**	2, multimode SFP/LC
100Base-T Ethernet ports	1, SFP/RJ45	**Independent Ethernet ports**	3
Ethernet addressing	Independent MAC and IP per port	**Published loose-module code**	UR9U

Data applicability

GE documents UR9U and the type-U interface mix. The complete UR9UH suffix and installed SFP population must be checked against the offered unit and relay configuration; no relay-wide power rating is assigned to this loose CPU.

Why does replacing a version 6 CPU with UR9UH need a firmware review?

GE identifies UR9U as a version 7 CPU option and warns that upgrading earlier CPUs can require additional hardware and compatible firmware. Record the complete relay order code and approved firmware before scheduling the change.

How are the three Ethernet paths on UR9UH distinguished?

Type U has two multimode 100Base-FX SFP/LC paths and one 100Base-T SFP/RJ45 path, each with its own MAC and IP address. Document the actual fitted SFPs and network assignments.

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03 / Configuration and uses

GE lists UR9U as a version 7 loose CPU option in its version 6 end-of-manufacturing notice. The older version 6 CPU types E, J, K and N reached the stated last-order date of 31 December 2022; replacing one with a version 7 CPU involves relay and firmware compatibility checks. The final H in UR9UH is part of the offered marking and should be matched to the installed unit.

Before an exchange, save the relay settings and communications configuration, identify all installed SFP media, and verify the relay firmware and other modules against the manufacturer’s upgrade guidance. After fitting, check CPU start-up, port link states, IP/MAC records, RS485 communication and every protection function affected by the outage.

Applications

Protection relay control

Run the installed UR relay’s approved protection, logic, event and control configuration.

Substation fiber network

Connect two multimode LC 100Base-FX paths where the installed SFPs and network design support them.

Copper station LAN

Use the independent RJ45 100Base-T path for the configured engineering or station network.

Legacy serial integration

Retain the RS485 communications map and polarity when the relay exchanges data with serial equipment.

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04 / Service and support

Back up relay settings

Export the complete approved relay configuration, firmware and event record before a CPU change.

Confirm version boundary

A version 7 CPU replacement may require other module or firmware changes; check the GE upgrade path.

Record SFP population

Identify the actual transceivers and LC/RJ45 media rather than assuming a port description proves an installed SFP.

Isolate and protect

Follow the relay maintenance procedure and ESD control when removing the CPU module.

Technical questions

Does the type-U description guarantee that UR9UH includes SFP transceivers?

No. The GE interface description identifies the supported port mix. The quotation should separately confirm the transceivers and any patch leads supplied with the physical module.

Technical enquiry

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