IS420UCSCH1A-H-V0.1-A

01 / Product identity and control context

Turbine Controller Module

GE IS420UCSCH1A-H-V0.1-A is offered as a Mark VIe UCSC controller. The IS420UCSCH1A base design provides application processing and Ethernet interfaces for a configured control system.

Key characteristics

Offered model	IS420UCSCH1A-H-V0.1-A
Base reference	IS420UCSCH1A
Base processor	1.2 GHz quad-core AMD
Control platform	Mark VIe

Installed-system relationship

GE IS420UCSCH1A-H-V0.1-A belongs in the identification record for the installed Mark VIe controller. Match its complete label and software configuration before restoring the application and network relationships.

Complete identity

Compare the full IS420UCSCH1A-H-V0.1-A label and any revision markings.

Configuration boundary

Figures identify the IS420UCSCH1A base design; confirm the complete H-V0.1-A unit, software and system configuration separately.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

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02 / Technical characteristics

Hardware and functional data

Manufacturer	General Electric
Product series	Mark VIe
Base reference	IS420UCSCH1A
Base processor	AMD GX-412HC
Base CPU frequency	1.2 GHz
Base CPU cores	Four; two Mark VIe cores
Base memory	4 GB DDR3-1333 with ECC
Base storage	40 GB pSLC SSD; 16 GB used

Interfaces and operating conditions

Base Ethernet ports	Six 100 Mbps ports
Base additional ports	Two USB 2.0; RJ-45 console
Base nominal supply	24 / 28 V DC
Base supply range	18 to 30 V DC
Base maximum power	31 W
Base operating temperature	-40 to 70 °C
Base cooling	Convection; vertical orientation
Base PROFINET capability	Supported in the applicable configured system

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03 / Application and integration contexts

Turbine application control

Run the approved Mark VIe application within the configured controller system. Retain the software revision, I/O relationships and machine protection architecture.

Balance-of-plant coordination

Use the controller within an engineered plant-control configuration. Verify application capacity, communication roles and the actual connected equipment.

Application and software

Preserve the approved software, application backup and network configuration.

Ethernet I/O integration

Restore the assigned control-network interfaces and I/O relationships. Six physical Ethernet ports do not make their configured network roles interchangeable.

Controller replacement planning

Compare the complete offered label with the installed controller, application backup and redundancy arrangement. Confirm compatibility before loading software or reconnecting control networks.

Power and mounting

Confirm the actual supply connection, vertical orientation and cooling arrangement.

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04 / Installation and release decisions

Retain the complete marking

Record IS420UCSCH1A-H-V0.1-A, all additional labels and the installed controller identity. Do not reduce the replacement record to the base number alone.

Preserve software and configuration

Back up the approved application, firmware information and network assignments. Do not infer the installed software release from the H-V0.1-A marking.

Verify the controller supply

The base reference uses 18 to 30 V DC with 24/28 V DC nominal and 31 W maximum. Confirm applicability to the offered unit and the actual power connection before installation.

Maintain cooling orientation

The base controller uses convection cooling in a vertical orientation. Preserve the cabinet airflow, mounting arrangement and environmental conditions required by the system.

Restore network roles

Label cables and retain the original Ethernet port assignments. Verify network isolation and communication roles before reconnecting the controller.

Commission within the system

Use the approved GE and site procedure to verify software, I/O communications, diagnostics and any redundant-set behavior before operational release.

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

The current manufacturing and support phase for IS420UCSCH1A-H-V0.1-A has not been confirmed. Obtain current GE Vernova guidance for this complete identity and installed application.

Supply boundary

Apter Power availability and dispatch are confirmed separately from the manufacturer lifecycle phase.

Technical basis

GE Vernova Mark VIe UCSE Fact Sheet, GEA35665 (October 2024), UCSCH1A/B hardware comparison.

Related product references

General Electric IS200TRPGH1B

General Electric IS200VVIBH1CAB IS200VVIBH1C

General Electric IS220PRTDH1A

Navigation only; no substitute or accessory compatibility is implied.

Offered-unit verification

Compare the complete label, connectors, mounting arrangement and applicable hardware/software revision. Confirm included components and accompanying documents in the quotation.

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