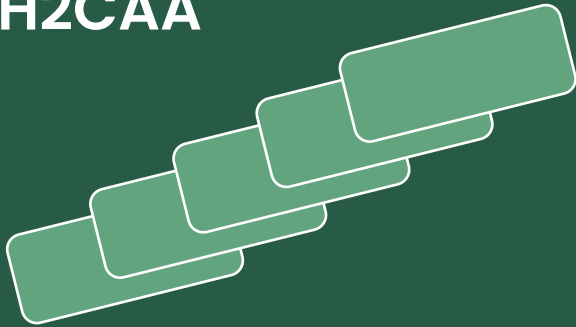


MANUFACTURER-SOURCE TECHNICAL REFERENCE

GE Vernova IS200VCMIH2CAA IS215VCMIH2CA

Product Reference

GE Mark VI VCM I H2 VME Bus Master Controller



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited GE Vernova manufacturer sources. No product photograph is included.

Product / lookup identity	GE Vernova IS200VCMIH2CAA IS215VCMIH2CA
Reference number	IS200VCMIH2CAA-IS215VCMIH2CA
Document basis	Published GE Vernova product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/General-Electric/is200vc Mih2caa-is215vc Mih2ca>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

GE IS200VCMIH2CAA / IS215VCMIH2CA is presented, subject to nameplate confirmation, as the H2 form of the VCM I VME Bus Master Controller used in a legacy Mark VI turbine control rack. The VCM I interfaces the controller with VME I/O boards, serves as the VME bus master, connects the rack to IONet, and manages the identities of the boards in the rack and their associated terminal boards. It moves digital I/O data...

Published field	Manufacturer-published value or verified identity note
VCM I function	Controller-to-I/O communication interface, IONet interface, VME bus master and rack/terminal-board ID manager
H2 communications	Three 10Base2 Ethernet IONet ports with BNC connectors, 10 Mbit/s
Additional interface	One RS-232C serial port, D-style plug connector, 9600 baud only
Board format	6U-high VME board, 0.787 inch wide
Processor	Texas Instruments TMS320C32 32-bit digital signal processor
Frame rates	10 ms for simplex; 40 ms for TMR; 20 ms and 80 ms are application dependent
Diagnostic monitoring	Monitors internal +5 V, ±12 V, ±15 V and ±28 V buses plus applicable PDM/J301 diagnostics

System function and signal path

01	The VCM I interfaces the controller with VME I/O boards, serves as the VME bus master, connects the rack to IONet, and manages the identities of the boards in the rack and their associated...
02	It moves digital I/O data and control-network packets rather than directly measuring a field process variable. The board also receives rack power-status analog and digital feedback through...
03	The H2 form has three IONet channels for R, S and T control paths in TMR Mark VI configurations and communicates with the main controller, local VME I/O boards and remote I/O racks containing...

Applications, answers, and official sources

1 TMR turbine-control rack communication: Provides three IONet paths for the R, S and T channels while exchanging I/O data over the VME backplane.

2 Local and remote I/O coordination: Links the controller to local I/O and to additional I/O racks on IONet, each remote rack using its own VCMI.

3 Rack identity management: Manages the IDs of rack boards and their associated terminal boards as part of the configured Mark VI topology.

4 Power-distribution diagnostics: Monitors internal supply rails and configured PDM/J301 status signals to support control-rack diagnostics.

Frequently asked questions

What is the GE VCMI H2 board?	It is the three-IONet form of the Mark VI VME Bus Master Controller, interfacing the controller, VME I/O boards and IONet.
Does the VCMI directly measure turbine field signals?	No. It primarily transfers I/O data and network packets. It also reads rack power-status and diagnostic signals through the backplane.
How many IONet ports does VCMI H2 provide?	GEH-6421M specifies three 10Base2 BNC IONet ports at 10 Mbit/s for H2.
What is the difference between VCMI H1 and H2?	H1 has one IONet port; H2 has three and is used for the three R, S and T paths in TMR arrangements.
Can VCMI support remote I/O racks?	Yes. The Mark VI architecture allows multiple I/O racks on IONet, with each remote rack using its own VCMI.
Where is the VCMI installed?	The manufacturer system description places VCMI in the Mark VI VME control or I/O rack, with the communication card in slot 1 in the control-module architecture.

Official GE Vernova sources

Mark VIe Control Design for Extended Lifecycle Fact Sheet	https://www.gevernova.com/content/dam/gepower-new/global/en_US/downloads/gas-new-site/resources/reference/GEA35307-Mark-VIe-Control-Design-Extended-Lifecycle-Fact-Sheet-RI-DIGITAL.pdf
Mark VIe Distributed Control System (DCS)	https://www.gevernova.com/gas-power/products/digital-and-controls/mark-vie-ecosystem
GE Vernova Gas Power Customer Portal	https://www.gevernova.com/gas-power/customer-portal-menu/customer-portal