VI702 S1

Yokogawa / Vnet/IP PCI Express interface card

Yokogawa VI702 S1 is a PCI Express Vnet/IP interface card for a compatible CENTUM system workstation.

Product identity and system role

The VI702 provides a workstation connection to the Yokogawa Vnet/IP control network. Its PCI Express x1 host interface exchanges data with the communication functions used by the installed control-system software.

The documented physical network is 1000BASE-T at 1 Gbit/s full duplex through an RJ45 connection. Category 5e UTP cabling is specified for the card-to-L2-switch link, with a 100 m maximum in the referenced installation. Network design still depends on the approved Vnet/IP topology and switch configuration.

Verified technical characteristics

System network	Vnet/IP
Host interface	PCI Express x1
PCIe transfer rate	2.5 GT/s
Network data rate	1 Gbit/s full duplex
Physical network	1000BASE-T, RJ45
Specified cable	Category 5e UTP
Card-to-switch cable limit	100 m
Host supply	3.3 V ±9%; 2.5 A maximum

Engineering context

Operator and engineering stations

Connect a supported CENTUM workstation to the configured Vnet/IP control network.

Control-network communication

Exchange system data through the approved L2 switch and Vnet/IP topology.

Workstation replacement

Transfer a matched VI702 interface while preserving network port assignment and station configuration.

Network diagnostics

Use RDY, RCV and SND indications together with host and switch diagnostics during fault isolation.

Configuration and verification

Confirm workstation support: Check the approved host model, PCIe slot and installed CENTUM release.

Preserve network mapping: Record Vnet/IP port assignment, switch connection and station settings.

Check cable path: Use the specified Cat 5e link and stay within the documented 100 m card-to-switch length.

Protect the card: Remove power and use ESD controls before handling the PCIe interface.

Selected engineering questions

What workstation slot is required for VI702 S1?

The documented host connection is PCI Express x1. Confirm that the approved workstation platform and slot support the card.

How should Vnet/IP path assignment be preserved when changing VI702 S1?
Record the original port-to-switch mapping and host network settings; restore them under the system configuration procedure.

What does an absent link indication on VI702 S1 suggest?
Check the RJ45 seating, cable, connected switch port, workstation recognition and network configuration before attributing the problem to the card.

Can VI702 S1 be inserted into a generic Ethernet network instead of Vnet/IP?
The card is specified for Yokogawa Vnet/IP. A standard RJ45 connector alone does not establish support for an unrelated Ethernet application.

What cable run applies between VI702 S1 and the L2 switch?
The manufacturer specifies Category 5e UTP and a maximum 100 m card-to-switch link in the documented installation.

How is the power budget for VI702 S1 assessed?
Check that the compatible PCIe host can provide 3.3 V within the stated tolerance and the card maximum current of 2.5 A.

Source and application boundary

Yokogawa GS 33J50C10-01EN, Vnet/IP Interface Card VI702, Style S1.

VI702 Style S1 information applies to the offered VI702 S1 marking.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

Yokogawa ADV551-P03 S2	Yokogawa ADV161-P00 S2
Yokogawa AAT141-S00 S2	Yokogawa AAT141-S00

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Send the complete model and installed-system details when requesting a quotation.