

General Specifications

Model AVR10D
Duplexed V net Router



GS 33K50D10-50E

[Release 5]

■ GENERAL

These Bus Converters connect CENTUM VP Human Interface Stations (HISes) on the Vnet/IP to CENTUM VP/CENTUM CS 3000/CENTUM CS stations on the V net, CENTUM CS 1000 stations on the VL net in other domain.

To connect to CENTUM CS 3000/CENTUM CS System, LHS4450 Multiple Project Connection Package and LHS5450 Multiple Project Connection Builder are required. To connect to CENTUM CS 1000 System, an Ethernet, as well as these packages, is also required.

■ HARDWARE SPECIFICATIONS

For the installation specifications and environmental conditions that are common to the systems, refer to "Integrated Production Control System CENTUM VP System Overview (Vnet/IP Edition) (GS 33K01A10-50E)."

Communication on the Vnet/IP Side

Communication Speed: 100 Mbps, Full Duplex
Connection: UTP cable (CAT5e or better), RJ45 connector
Interface: 100Base-TX compliance
Max. distance: 100 m (Distance between AVR10D and Layer 2 switch)

Communication on the V net Side

Communication Speed: 10 Mbps
Connection: Coaxial cable, BNC type
Dual-redundant or single
For CENTUM VP, CENTUM CS 3000 and CENTUM CS

Communication on the VL net Side

Communication Speed: 10 Mbps
Connection: Coaxial cable, BNC type
Dual-redundant or single
For CENTUM CS 1000

Configuration

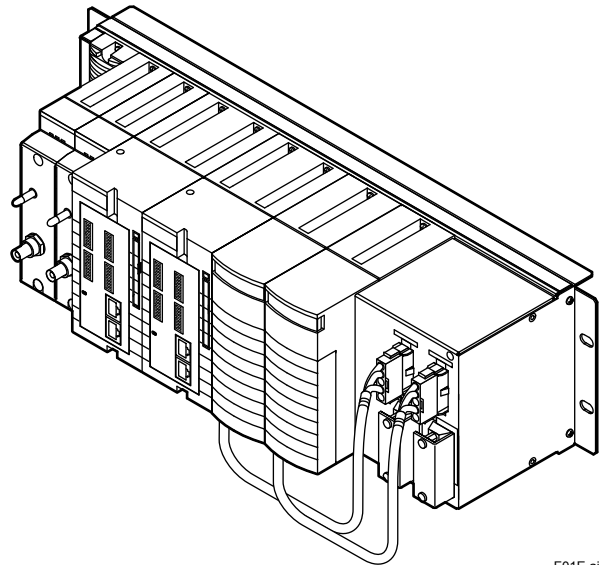
Nest

Mounting

19-inch Rack Mounting:
Rack mount (4 x M5 screws)
Insulation bush (accessory)

Connection

Power Supply: M4 screw terminal connection
Grounding: M4 screw terminal connection
Contact Output: M4 screw terminal connection
V net and VL net Side: T-junction BNC connection
Vnet/IP Side: UTP cable (CAT5e or better)



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Power Supply

(Specify with Suffix Code)

Voltage: 100-120 V AC, Frequency: 50/60 Hz
Voltage: 220-240 V AC, Frequency: 50/60 Hz
Voltage: 24 V DC

Power Consumption

100-120 V AC: 80 VA
220-240 V AC: 110 VA
24 V DC: 1.7 A
Power supply method dual-line or single power line

Weight

Approx. 5.8 kg

Regulatory Compliance

For the detailed information of following standards, see "System Overview (Vnet/IP Edition) (GS 33K01A10-50E)."

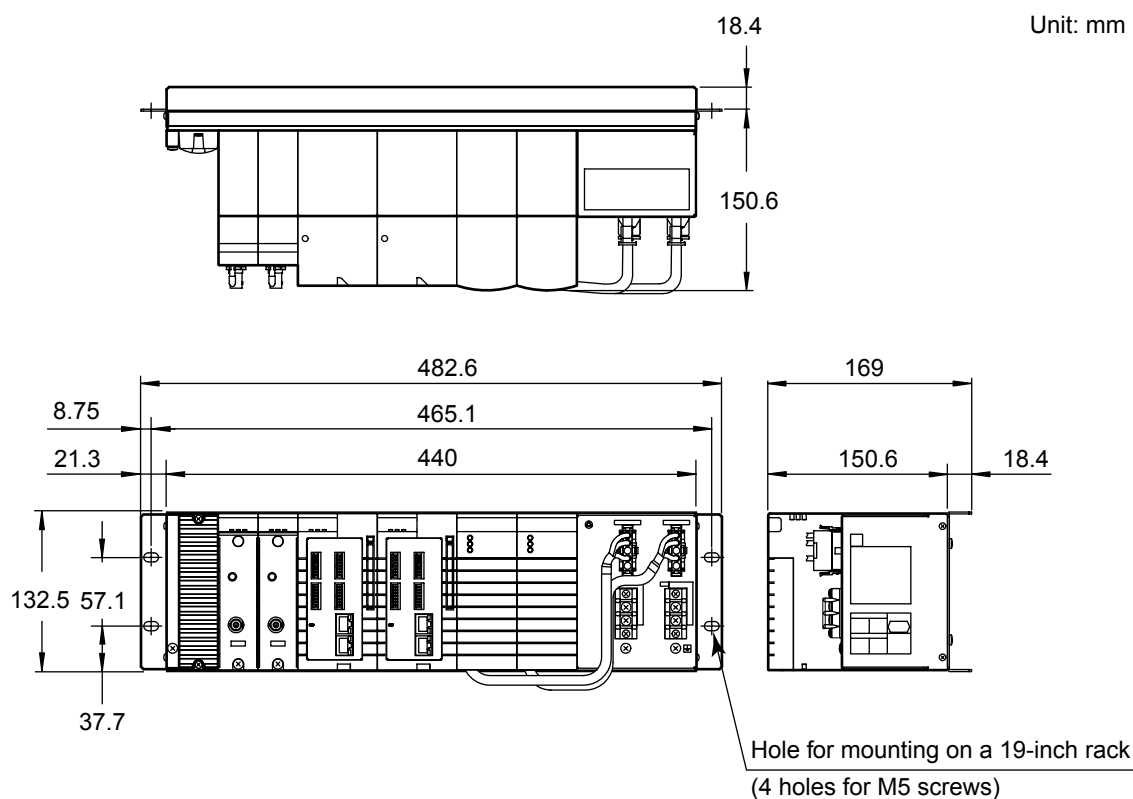
Safety Standards

[CSA] (for 100-120 V AC power supply)
[CE Marking] (for 100-120 V AC, 220-240 V AC and 24 V DC power supply)

EMC Conformity Standards

[CE Marking] (for 100-120 V AC, 220-240 V AC and 24 V DC power supply)
[C-Tick Marking] (for 220-240 V AC and 24 V DC power supply)
[KC Marking] (for 100-120 V AC, 220-240 V AC and 24 V DC power supply)

EXTERNAL DIMENSIONS



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REQUIREMENTS FOR USING SEM (SEQUENCE OF EVENTS MANAGER)

To use SEM for Vnet/IP, firmware revision of VI451 should be R6 or later. (Firmware revision No. is indicated under "F" on the revision sticker on the component)

For details, refer to "SEM Sequence of Events Manager (for Vnet/IP and FIO)".(GS 33K30D10-50E)

MODELS AND SUFFIX CODES

Duplexed V net Router

		Description
Model	AVR10D	Duplexed V net Router (Duplexed communication module, Duplexed power module)
Suffix Codes	-A1	For Single VL net
	-A2	For Dual-Redundant VL net
	-Q1	For Single V net (10BASE-2)
	-Q2	For Dual-Redundant V net (10BASE-2)
	1	Single Power Supply
	2	Dual Power Supply
	0	Always 0
	1	100-120 V AC Power Supply
	2	220-240 V AC Power Supply
	4	24 V DC Power Supply
	0	Basic type
	1	With ISA Standard G3 option

Note: For compliance with EMC Standards, AVR10D must be installed in a keyed metallic cabinet.

■ ACCESSORIES AND SPARE PARTS

Parts Names	Parts Numbers	Description	Quantity	Remarks
Insulating bush	S9049PM	-	4	Accessory
Accessory assembly	S9768UK	AVR10D-□1	1	Accessory of VC401
Accessory assembly	S9768UK	AVR10D-□2	2	Accessory of VC401
Content of S9768UK				
Coaxial connector	A1120JA	-	1	T junction
Cover	T9072MB	-	1	
Cover	T9072MC	-	1	

■ ORDERING INFORMATION

Specify model and suffix codes.

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