

General Specifications

Model AVR10D
Duplexed V net Router

CENTUMVP

GS 33J50D10-01EN

[Release 6]

■ 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, VP6H4450 Multiple Project Connection Package and VP6E5450 Multiple Project Connection Builder are required. To connect to CENTUM CS 1000 System, an Ethernet, as well as these packages, is also required.

■ STANDARD SPECIFICATIONS

For the installation specifications and environmental conditions that are common to the systems, refer to the GS "Integrated Production Control System CENTUM VP System Overview" (GS 33J01A10-01EN).

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)

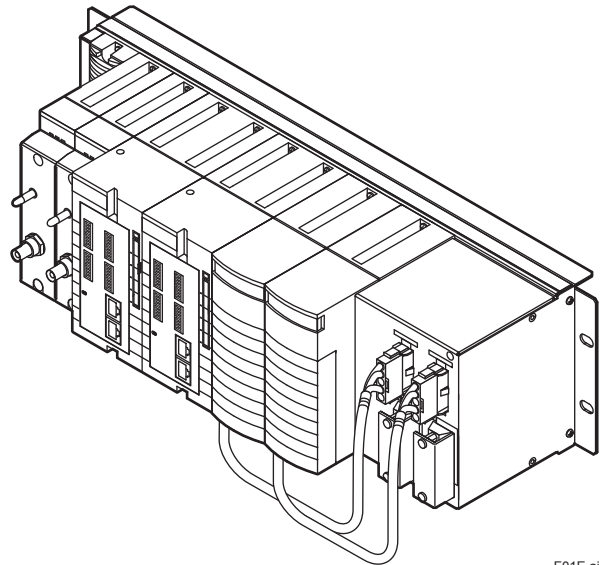
Connection

Power Supply: M4 screw terminal connection

Grounding: M4 screw terminal connection

V net and VL net Side: T-junction BNC connection

Vnet/IP Side: UTP cable (CAT5e or better)



F01E.ai

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

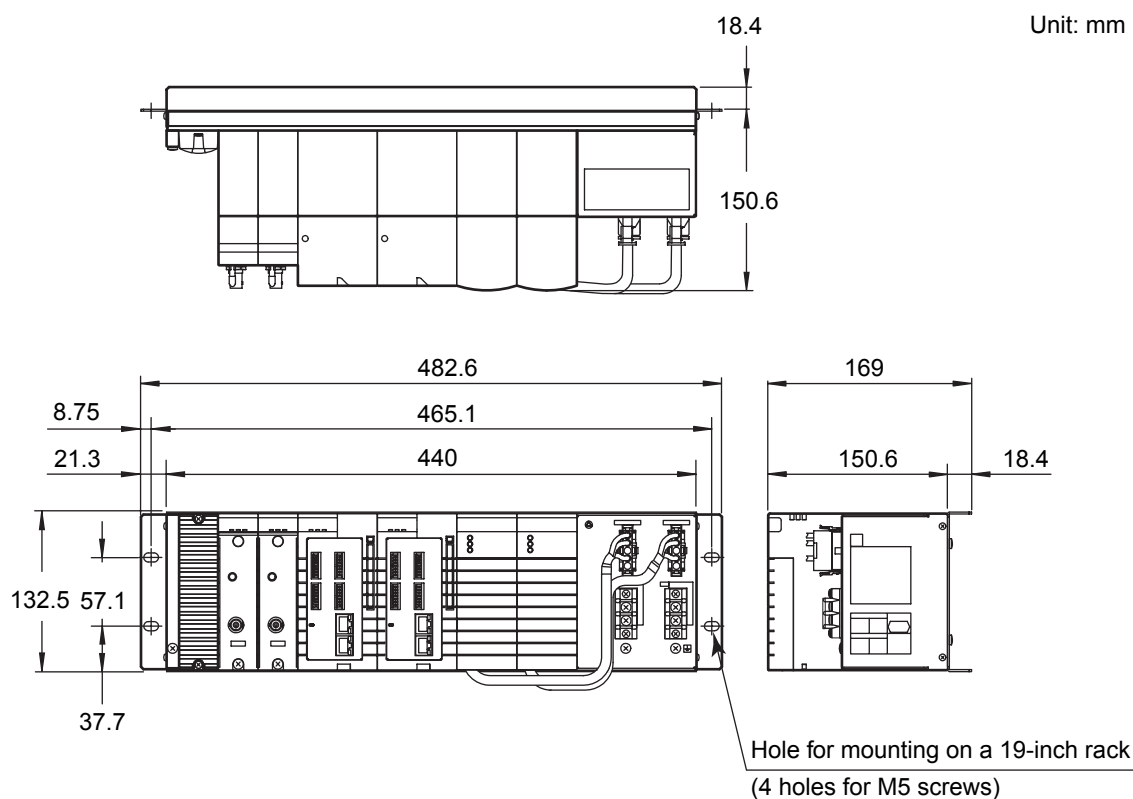
24 V DC: 1.7 A

Power supply method dual-line or single power line

Weight

Approx. 5.8 kg

■ EXTERNAL DIMENSIONS



F02E.ai

Note: The above drawings are for AVR10D-□□20□□.

Nominal Tolerances :

When the reference dimension is over 0.5 mm and equal or less than 120 mm, its nominal tolerance is ± 0.8 mm, while its combination of nominal tolerance is ± 1.5 mm.

When the reference dimension is over 120 mm, its nominal tolerance is in accordance with JEM 1459.

■ 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

Parts Names	Parts Numbers	Description	Quantity	Remarks
Coaxial connector	A1120JA	—	1	T junction
Cover	T9072MB	—	1	
Cover	T9072MC	—	1	

■ APPLICABLE STANDARDS

Refer to the GS “Integrated Production Control System CENTUM VP System Overview” (GS 33J01A10-01EN).

■ ORDERING INFORMATION

Specify model and suffix codes.

■ TRADEMARK

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