

General Specifications

ACUKT2 Cabinet Utility Kit (for CENTUM-XL, AFV30□)



GS 33J60K21-01EN

[Release 6]

■ GENERAL

The ACUKT2 Cabinet Utility Kit is used to install in high density a Field Control Unit (AFV30□), ESB Bus Node Unit (ANB10□), Optical ESB Bus Node Unit (ANB11□), and Unit for Optical ESB Bus Repeater Module (ANT10U) in the existing CENTUM-XL Cabinet. Temperatures and fans in the cabinet can be monitored on HIS by connecting to the HK bus.

AFV30□, AFV40□, ACB51, ANB10□, ANB11□, and ANT10U can also be constructed by combining the Base Plate and each module. Refer to "FIO System Overview" (GS 33J60A10-01EN).

■ STANDARD SPECIFICATIONS

● Kit Components

Power Distribution Board with Built-in HKU
Power Supply for HKU and Fan: 2 power supplies
Cables
Power Supply Bus Unit, Vertical Type (specify with option code)
Node Fan Unit (specify with option code)

● Units that can be Installed in Cabinet (order separately)

Field Control Unit: AFV30□
ESB Bus Node Unit: ANB10□
Optical ESB Bus Node Unit: ANB11□
Unit for Optical ESB Bus Repeater Module: ANT10U

● Applicable Cabinet

CENTUM-XL: EFCS, EFCD, EMCS, EMCD, EFMS

● Number of Units that can be Installed in Cabinet

Maximum number of installable units is 6 at the front side
Maximum number of AFV30□ is 1

● Status Contact Output

When AFV30□ is installed: FCU fault contact is output
When AFV30□ is not installed: A fan, fan power supply, PS4□ or cabinet temperature fault contact is output
Contact Rating:
Rated voltage: 250 V AC/30 V DC or less
Rated current: 2 A
Rated power: 125 VA or less

● Power Supply

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

● Power Consumption

100-120 V AC: 2200 VA (When the maximum number of EFCD is installed)
100 VA (Only for ACUKT2) 220-240 V AC: 2600 VA (When the maximum number of nodes is installed)
100 VA (Only for ACUKT2) 24 V DC: 62 A (When the maximum number of nodes is installed)
5 A (Only for ACUKT2)

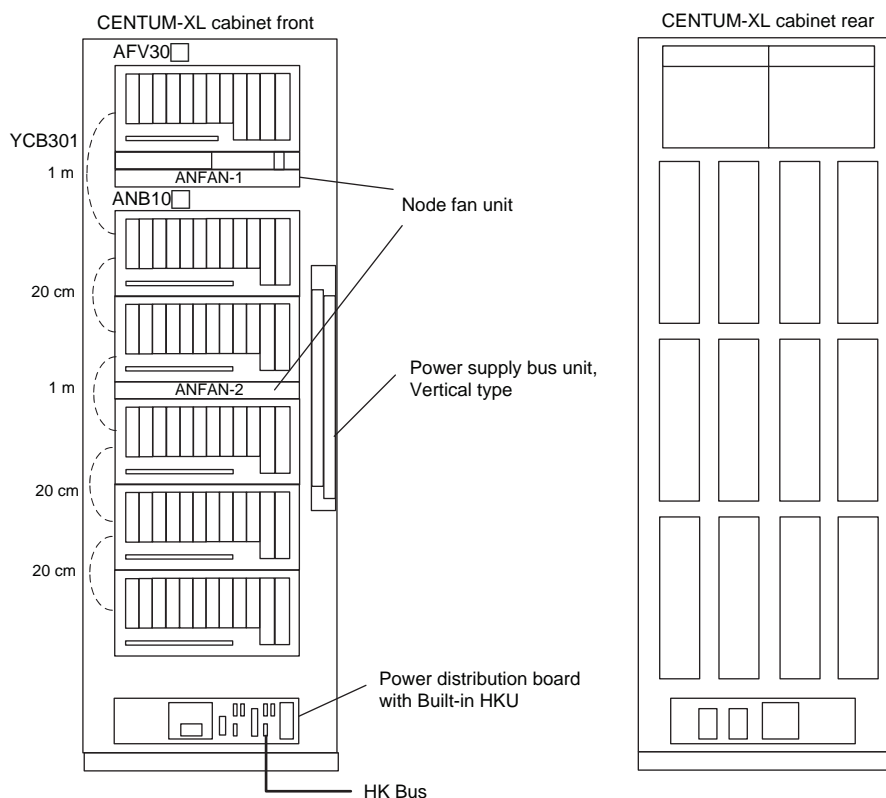
● Connection

Power Supply: M6 screw terminal connection (Power can be received from two power sources)
Contact Output: M4 screw terminal connection

● Weight

Approx. 21 kg (Total weight of the kit components)

■ UNIT INSTALLATION EXAMPLE



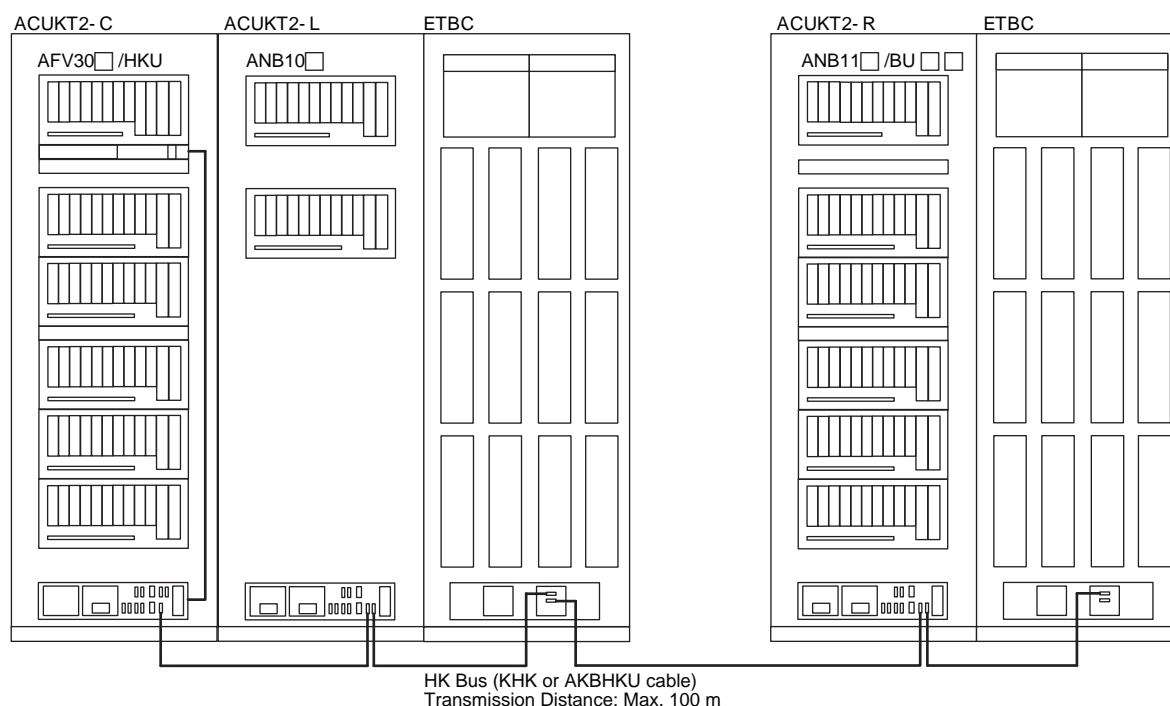
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Figure Example of Installing AFV30D, ANB10D, and ACUKT2 in CENTUM-XL Cabinet

■ HK BUS CONNECTION EXAMPLE

To connect the HK bus between cabinets, use the existing KHK cable or a new AKBHKU cable.

To connect the HK bus between cabinets, which are installed at a distance from each other, specify "ANB11□/BU□□" and "ACUKT2-R."

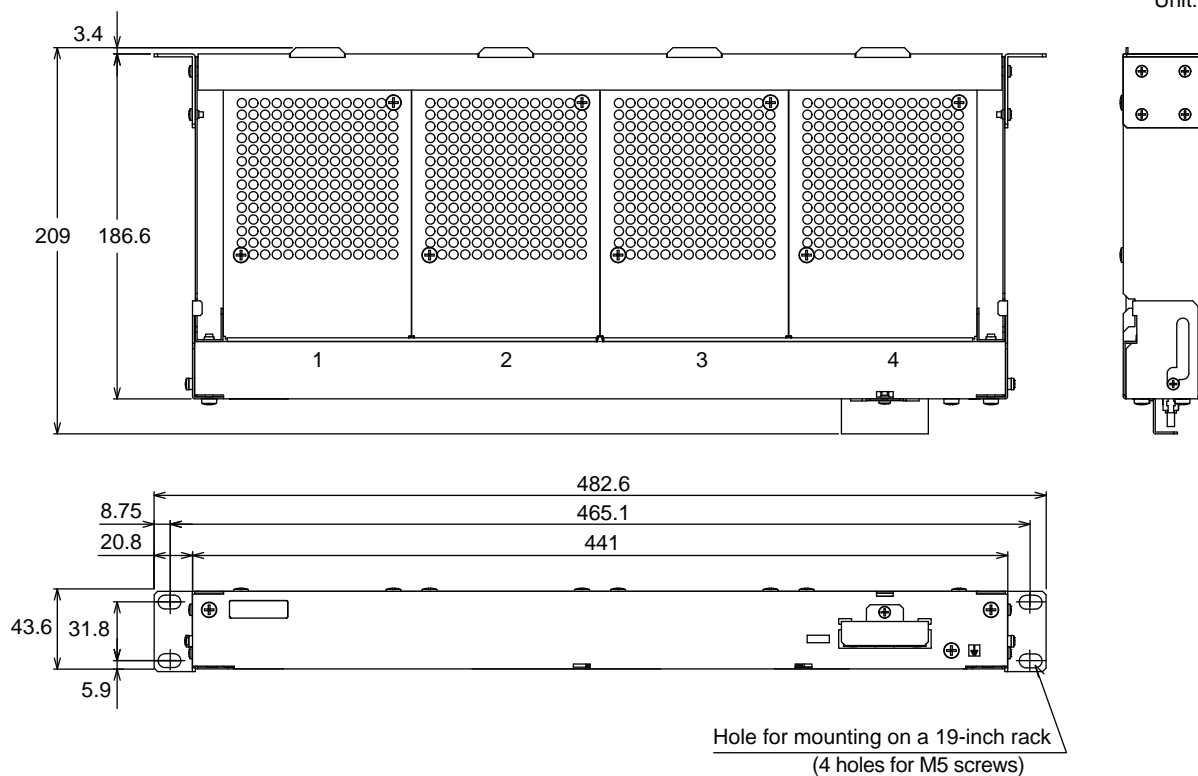


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EXTERNAL DIMENSIONS

● Node Fan Unit

Unit: mm



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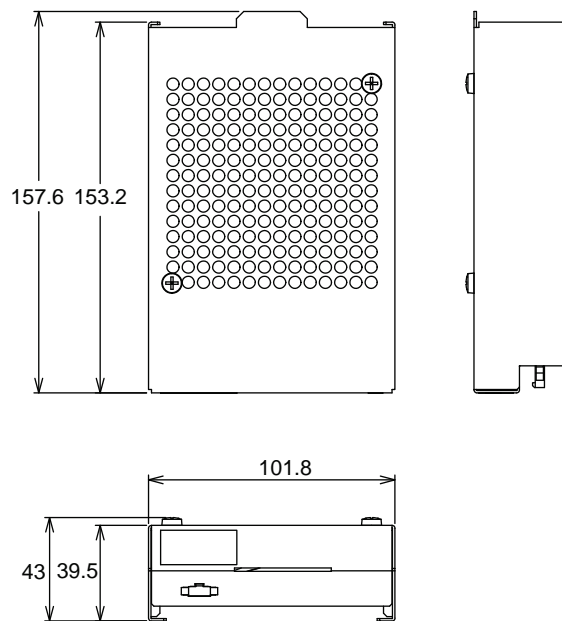
Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Fan Unit (for ANFAN)

Unit: mm



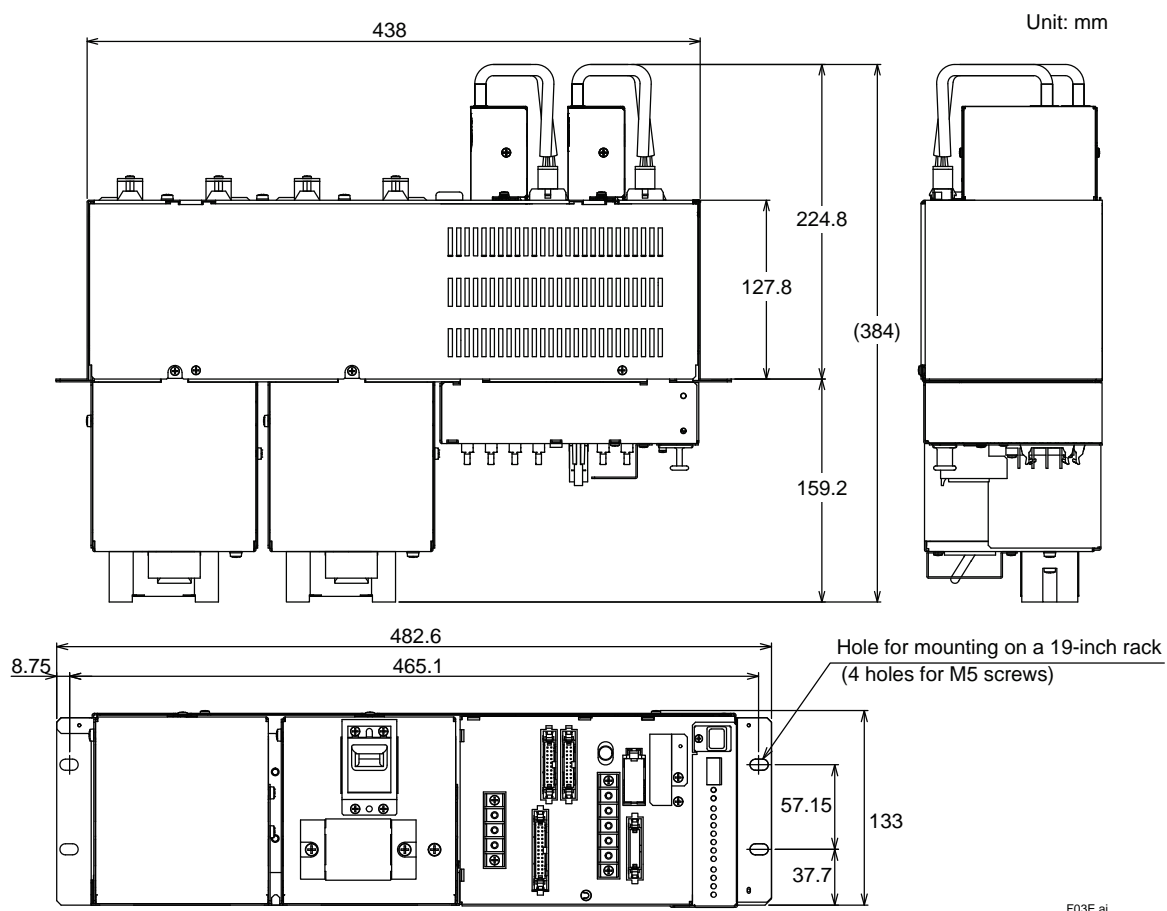
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Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Power Distribution Board with Built-in HKU

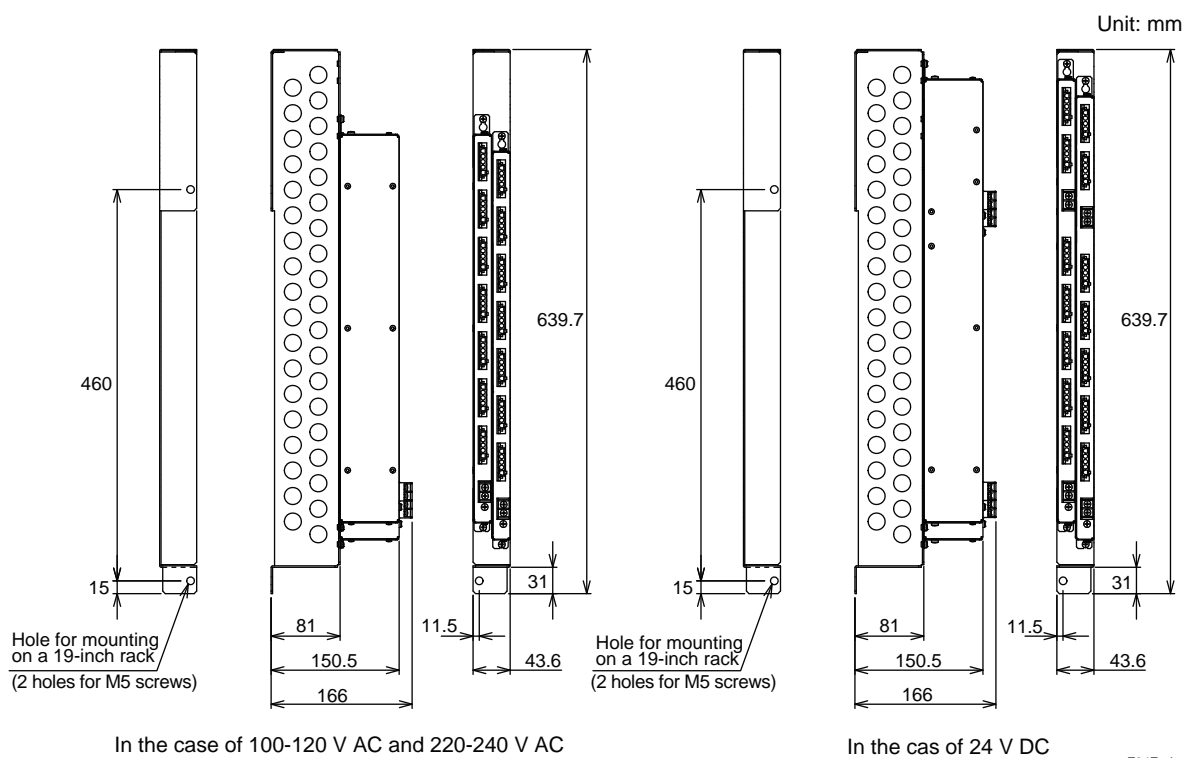


Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

● Power Supply Bus Unit, Vertical Type (for Cabinet Mounting)



Nominal tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

■ MODELS AND SUFFIX CODES

Cabinet Utility Kit (for CENTUM-XL, AFV30□)

		Description
Model	ACUKT2	Cabinet Utility Kit (for CENTUM-XL, AFV30□)
Suffix Codes	-C	For CPU node (for AFV30□/HKU)
	-L	For ESB Bus Node (for ANB10□) (*1)
	-R	For Optical ESB Bus Node (for ANB11□) (*1)
	1	EFCS, EFCD, EMCS, EMCD, EFMS migration
	1	Always1
	1	100 - 120 V AC power supply
	2	220 - 240 V AC power supply
	4	24 V DC power supply
	0	Basic type
Option Codes	/NFAN1	Node fan 1 (for upper of front side) (*2) [Model: ANFAN-1]
	/NFAN2	Node fan 2 (for lower of front side) (*2) [Model: ANFAN-2]
	/□-AEP	Power supply bus unit, vertical type [Model: AEPV7D]

Note: When the field control unit (AFV30□) is to be used in combination with this kit, specify the option code "/HKU" when ordering AFV30□.

*1: Be sure to use the HK Bus Cable (KHK or AKBHKU) if communication with the HK unit is to be performed between cabinets.

*2: Specify node fan units ("/NFAN") according to the number of node units (ANB10□ or ANB11□ or ANT10U) and CPU node to be mounted on the front and rear sides of the cabinet.

<Front side>

In the case of one CPU node and node units:

One CPU node + 0 to 4 node units: /NFAN1

One CPU node + 5 node units: /NFAN1/NFAN2

In the case of no CPU node:

0 to 4 node units: No node fan unit is required

5 node units: /NFAN1

6 node units: /NFAN1/NFAN2

■ MODELS AND SUFFIX CORDS OF RELATED PRODUCTS

The following related products are included in the ACUKT2. Order any new products that will be required when performing additional installation or maintenance work.

Node fan unit

		Description
Model	ANFAN	Node fan unit
Suffix Codes	-1	Node fan 1 (for upper of front side, power supply cable 2.1 m)
	-2	Node fan 2 (for lower of front side, power supply cable 1.6 m)

Fan Unit (for ANFAN)

		Description
Model	AIP611	Fan Unit (for ANFAN)

■ APPLICABLE STANDARDS

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

■ ORDERING INFORMATION

Specify models and suffix codes when ordering.

■ TRADEMARK ACKNOWLEDGMENT

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