MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

YOKOGAWA

NFBU200-S16 S1

LONG DIN-RAIL BASE MODULE

Used with the applicable STARDOM FCN configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Yokogawa GS 34P02Q13-01E

■ BASE MODULE

A base module is a chassis on which various function modules such as CPU, power supply, and I/O modules are mounted to configure a control unit.

● Model and Suffix Codes

Base Module (short)

		Description
Model	NFBU050	Base module (short)
Suffix Codes	-S	Standard type
	1	DIN rail-mounted
	5	Basic type with no explosion protection
	6	With ISA Standard G3 option and no explosion protection
	E	Basic type with explosion protection
	F	With ISA Standard G3 option and explosion ptrotection

Base Module (long)

		Description
Model	NFBU200	Base module(long)
Suffix Codes	-S	Standard type
	0	19-inch rack-mounted
	1	DIN rail-mounted
	5	Basic type with no explosion protection
	6	With ISA Standard G3 option and no explosion protection
	E	Basic type with explosion protection
	F	With ISA Standard G3 option and explosion ptrotection

Optional Accessories

		Description
Model	NFDCV01	Dummy cover for I/O module slot
	NFDCV02	Dummy cover for power supply module slot

● Specifications

Item			Specification		
Model			NFBU050-S1□	NFBU200-S0□	NFBU200-S1□
Max number of mountable I/O modules			3	8	8
Number of mountable Power suply modules			1	2 (*1)	2 (*1)
Weight			0.58 kg	1.9 kg	1.0 kg
Dimensions (W×H×D)			283×131×24.2 mm	482×132.5× 40.5 mm	440×131× 42.3 mm
Mounting			DIN rail-mounted	19-inch rack-mounted	DIN rail-mounted
Maximum power consumption	5 V	Self-consumption	0.025 A	0.4 A(max)	
	24 V	Self-consumption	0		

*1: Only NFPW444 power supply module can be redundant.

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■ I/O MODULES

An autonomous controller FCN-RTU supports the following I/O modules and up to eight of them can be installed on it. For details, refer to the following General Specifications.

- GS 34P02Q31-01E Analog I/O Modules
- GS 34P02Q35-01E Digital I/O Modules
- GS 34P02Q55-01E FOUNDATION fieldbus Communication Module
- GS 34P02Q57-01E PROFIBUS-DP Communication Module
- GS 34P02Q58-01E CANopen Communication Module

Table List of FCN-RTU's Modules and Descriptions (1/2)

Type	Model	Description	Temp. (-40to+70°C) Altitude (3000m)	Temp. (-20to+70°C) Altitude (2000m)	Explosion Protection		HART Option
					FM NI (Nonincendive) ATEX Type "n" CSA NI (Nonincendive)	IECEx Type "n"	
Base module	NFBU050	Base Module (short)	✓	✓	✓	✓	(*1)
	NFBU200	Base Module (long)	N.A.	✓	✓	✓	
Power supply module	NFPW426	Power Supply Module (12 VDC input, 24 VDC input)	✓	✓	✓	✓	
	NFPW444	Power Supply Module (24 VDC input)	N.A.	✓ (*8)	✓	✓	
CPU module	NFCP050	CPU Module for FCN-RTU	✓	✓	✓	✓	
Analog I/O Modules (*2)	NFAI135	Analog Input Module (4 to 20 mA, 8-channel, Isolated channels)	N.A.	✓ (*9)	✓	N.A.	✓
	NFAI141	Analog Input Module (4 to 20 mA, 16-channel, Non-Isolated)	N.A.	✓ (*9)	✓ (*3)	✓ (*3)	✓ (*3)
	NFAI143	Analog Input Module (4 to 20 mA, 16-channel, Isolated)	N.A.	✓ (*9)	✓	✓	✓
	NFAI543 (*11)	Analog Output Module (4 to 20 mA, 16-channel, Isolated)	N.A.	✓ (*10)	✓	✓	✓
	NFAV141	Analog Input Module (1 to 5 V, 16-channel, Non-Isolated)	N.A.	N.A.	✓	N.A.	N.A.
	NFAV144	Analog Input Module (1 to 5 V, 16-channel, Isolated)	N.A.	✓ (*5)	✓	N.A.	N.A.
	NFAI841	Analog I/O Module (4 to 20 mA input, 4 to 20 mA output, 8-channel input/8-channel output, Non-Isolated)	N.A.	✓ (*9) (*10)	✓ (*3)	✓ (*3)	✓ (*3)
	NFAB841	Analog I/O Module (1 to 5 V input: differential input, 4 to 20 mA output, 8-channel input/8-channel output, Non-Isolated)	N.A.	N.A.	✓	N.A.	N.A.
	NFAT141	TC/mV Input Module (16-channel, Isolated)	N.A.	N.A.	✓	N.A.	N.A.
	NFAR181	RTD Input Module (12-channel, Isolated)	✓ (*4) (*7)	✓ (*4) (*7)	✓	✓	N.A.
	NFAI835	Analog I/O Module (4 to 20 mA, 4-channel input/4-channel output, Isolated channels)	N.A.	✓ (*9)(*10)	✓	✓	✓
	NFAP135	Pulse Input Module (8-channel, Pulse count, 0 to 10 kHz, Isolated channels)	✓ (*4) (*7)	✓ (*4) (*7) (*9)	✓	N.A.	N.A.
Digital I/O Modules (*2)	NFDV151	Digital Input Module (32-channel, 24 VDC, Isolated)	N.A.	✓	✓	✓	N.A.
	NFDV157	Digital Input Module (32-channel, 24 VDC, Pressure Clamp Terminal support only, Isolated)	N.A.	N.A.	✓	N.A.	N.A.
	NFDV551	Digital Output Module (32-channel, 24 VDC, Isolated)	N.A.	✓	✓	✓	N.A.
	NFDV557	Digital Output Module (32-channel, 24 VDC, Pressure Clamp Terminal support only, Isolated)	N.A.	N.A.	✓	N.A.	N.A.
	NFDR541 (*12)	Relay Output Module (16-channel, 24 to 110 VDC/ 100 to 240 VAC, Isolated)	N.A.	✓ (*5) (*6)	✓	N.A.	N.A.
Communication Modules	NFLC121	CANopen Communication Module (1-port, 10 kbps to 1 Mbps)	N.A.	N.A.	N.A.	N.A.	N.A.
	NFLF111	Foundation fieldbus Communication Module (4-port)	✓ (*7)	✓ (*7)	✓	N.A.	N.A.
	NFLP121	PROFIBUS-DP Communication Module (1-port, 9.6 kbps to 12 Mbps)	N.A.	N.A.	N.A.	N.A.	N.A.

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