General Specifications

NT752AJ
FCN/FCJ Simulator

STARDOM
FCN
FCJ

GS 34P02Q77-01E

■ GENERAL

FCN/FCJ Simulator is a software product that runs on a PC and simulates control applications running on a single FCN/FCJ. FCN/FCJ Simulator facilitates the debugging of control applications, thus improving development efficiency.

PC — Logic Designer — debug — FCN/FCJ Simulator

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Figure FCN/FCJ Simulator (Example 1)

■ FUNCTION SPECIFICATIONS

● FCN/FCJ Simulator can be used for the following:

• FCN/FCJ control applications created with a Logic Designer can be debugged with an FCN/FCJ Simulator. Software wiring function can be used in simulation.
• VDS or FAST/TOOLS can be debugged by accessing FCN/FCJ Simulator data.
• Duolet (Java language application) running on the Doulet function of the FCN/FCJ in conjunction with control applications can be debugged on a PC.

FCN/FCJ Simulator can be operated on the same PC as a Logic Designer, VDS or FAST/TOOLS. FCN/FCJ Simulator can also be operated on a different PC. One FCN/FCJ can be simulated per PC.

● APPFs that can be operated in FCN/FCJ Simulator:

• PAS Portfolio
• SAMA Portfolio (*1)
• General-purpose Portfolio (*1)
• Boiler Control Portfolio License (*1)
• Boiler Auxiliary Control Portfolio License (*1)
  *1:   Execute in FCN-100 (FCN autonomous controller with NFCP100 CPU module) and FCJ(all-in-one type autonomous controllers)
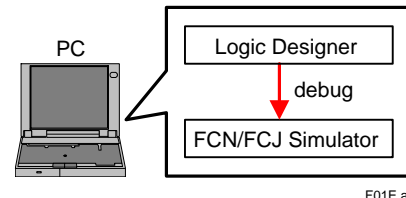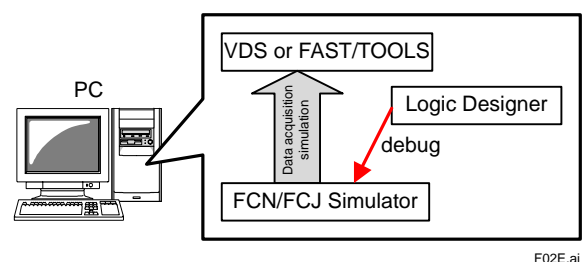

PC — VDS or FAST/TOOLS — Data acquisition simulation — Logic Designer — debug — FCN/FCJ Simulator

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Figure FCN/FCJ Simulator (Example 2)

VDS or FAST/TOOLS — PC — Logic Designer — Ethernet — debug — Data acquisition simulation — FCN/FCJ Simulator — PC
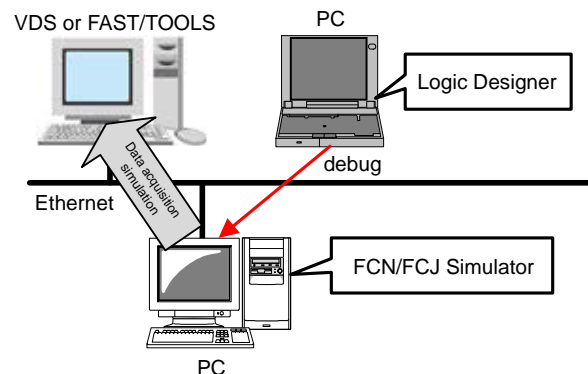
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Figure FCN/FCJ Simulator (Example 3)

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● **Functions that Cannot Be Used in FCN/FCJ Simulator**

FCN/FCJ Simulator does not allow you to use the following functions:

• FCN/FCJ I/O modules
  FCN/FCJ IO modules always remain separated from the simulator.
• Configuration functions through a Web browser
• CPU duplication related functions
• Network duplication related functions

● **POU and APPF that Cannot Be Used in FCN/FCJ Simulator**

POUs for communications among POUs and FCN/FCJ Application Portfolios (hereinafter referred to as APPF) do not execute communication with other FCN/FCJ or foreign devices in FCN/FCJ Simulator. If it is executed in FCN/FCJ Simulator, will result in an error.

Standard POUs (all POUs for communications) that result in errors in FCN/FCJ Simulator are:
• FCN/FCJ Simulator inter-communications function blocks
• FA-M3 Emulator (serial) function blocks
• Ethernet communications function blocks
• Serial communications function blocks

Major APPFs that do not function on FCN/FCJ Simulator:
• FA-M3 Communication Portfolio
• MELSEC-A Communication Portfolio
• SYSMAC Communication Portfolio
• Modbus Communication Portfolio
• DNP3 Communication Portfolio
• Power Monitor Communication Portfolio
• Temperature Controller Communication Portfolio

● **Others**

The FCN/FCJ Simulator processing speed depends on the specification of the PC. FCN/FCJ Simulator may provide a processing speed higher than the FCN/FCJ.

In this case, be sure to confirm the execution speed of control applications on the FCN/FCJ.

■ OPERATING ENVIRONMENT
Same as the Logic Designer operating environment.

■ METHOD OF SOFTWARE SUPPLY

● **Software Media**

The programs and documents for FCN/FCJ Simulator are supplied as a DVD-ROM.

Hence, a DVD-ROM drive is required for installation in the computer you use. FCN/FCJ Simulator is included in the media (DVD-ROM) of FCN/FCJ Software (Model NT203AJ).

● **Order ID Sheet**

The FCN/FCJ Simulator license comes with an order ID sheet with the order ID number and password. Access the specified Web site of Yokogawa and enter the order ID number and password shown. Then, the key-code for FCN/FCJ Simulator will be issued. This key-code is used when installing the FCN/FCJ Simulator to a PC.

■ MODELS AND SUFFIX CODES

● **Software Media**

		Description
Model	NT203AJ	FCN/FCJ software media
Suffix Codes	-P	Programs (including electronic documentation)
	C	DVD-ROM
	1	Always 1
	1	Always 1
	E	English version

● **FCN/FCJ Simulator**

		Description
Model	NT752AJ	FCN/FCJ Simulator license
Suffix Codes	-L	License
	W	Issued at Web (for R4.10 or later)
	1	Always 1
	1	Always 1
	A	Standard (same for both Japanese and English versions)

● **Spare Parts**

		Description
Model	NT228AA	ID module for FCN/FCJ Simulator

Note: For NT752AJ-LU11A

■ ORDERING INFORMATION
Specify model and suffix codes when ordering.

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