OMRON

Sysmac Library for NJ/NX/NY Controller

SYSMAC-XR019
RFID Communication Library

Sysmac Library

✓ **Improve efficiency and set up traceability facilities using RFID**
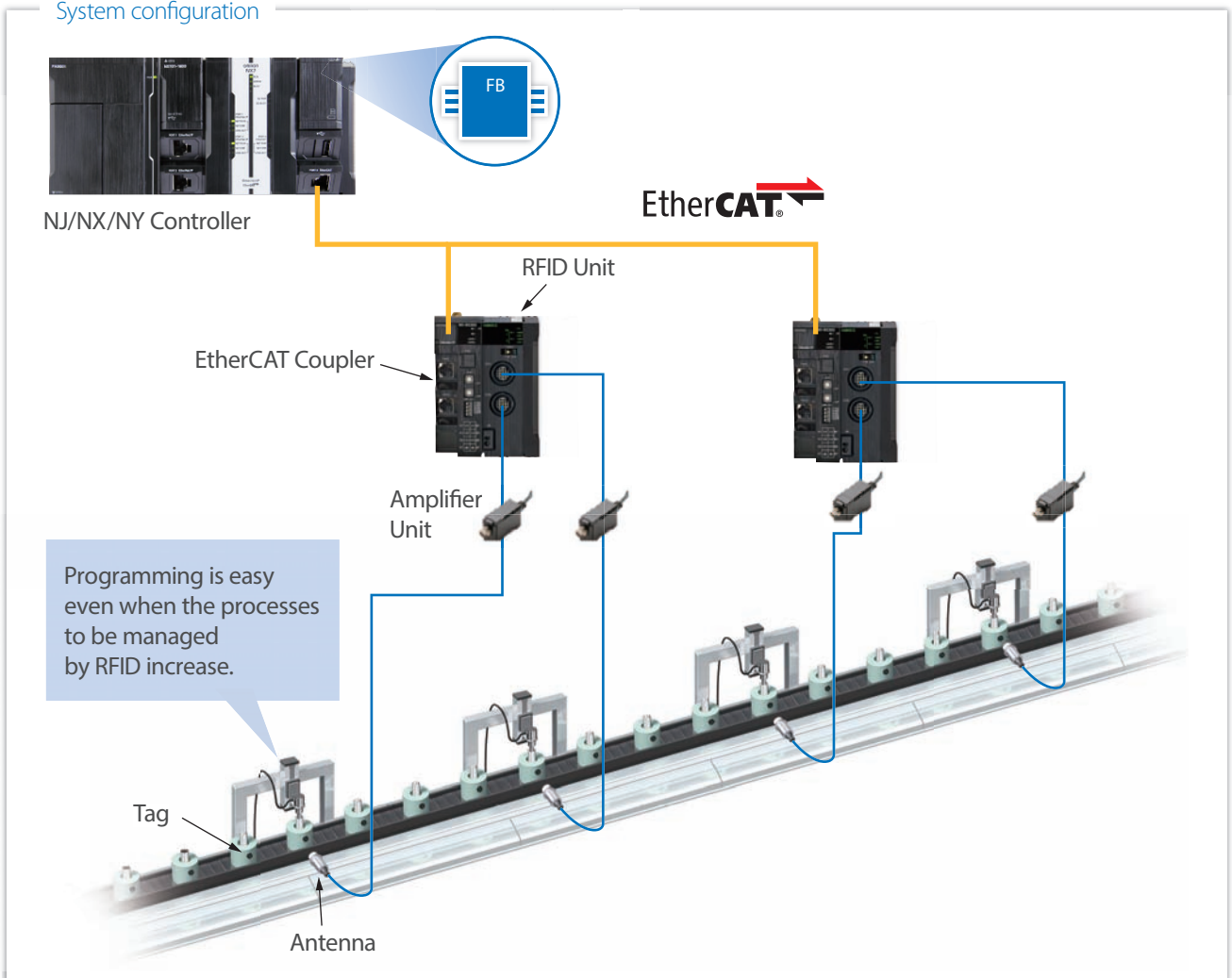
Issue When reading or writing data of RF tags, programming of the entire procedure for communication with the RFID unit is required, consuming large amounts of time for programming and debugging.

RFID Communication Library offers a solution!

With "Data read FB/Data write FB", programming of the procedure for communication with the RFID units from the beginning is no longer required. This greatly reduces the time spent on programming and debugging.

System configuration

NJ/NX/NY Controller

EtherCAT

RFID Unit

EtherCAT Coupler

Amplifier
Unit

Programming is easy
even when the processes
to be managed
by RFID increase.

Tag

Antenna

sysmac
always in control

Why the RFID Communication Library is able to reduce time spent on programming and debugging

Example: Reading high-capacity data

| From | Create a **3-step** process in the user program | To | Completed in **1 step** |

From	Create a **3-step** process in the user program

1	Data read command process
2	Accumulation of divided data and repeated transmission with a handshake process
3	Troubleshooting during communication failure

To	Completed in **1 step**

| 1 | Simply prepare the read area and execute the FB |

Compatible Models

Item	Name	Model	Version
Sysmac Library	NX-V680 Library	SYSMAC-XR019	Version 1.0.0 or later
Automation Software	Sysmac Studio	SYSMAC-SE□□□□	Version 1.23 or later
Device	CPU Unit	NX701-1□□□	Version 1.18 or later
		NJ101-□□□□	
		NJ501-□□□□	Version 1.18 or later
		NJ301-□□□□	
		NX1P2-□□□□□□(1)	Version 1.18 or later
		NX102-□□□□	Version 1.30 or later
	Industrial PC	NY5□□-1□□□/NY5□□-5□□□	Version 1.18 or later
	NX Series RFID Unit	NX-V680C□	Version 1.0 or later

Function Block (FB) Specifications

Name	FB name	Description
RF Tag data read for V680	ReadData_V680	This command reads data from the memory of an RF Tag in the communications range of the antenna.
RF Tag data write for V680	WriteData_V680	This command writes data to the memory of an RF Tag in the communications range of the antenna.

Note: Do not use this document to operate the Unit.

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