FACTORY AUTOMATION

# NZ2FT Series
# Slice Type Remote I/O

**Broadcast**

## Space-saving simple configuration

The NZ2FT Series slice type remote I/O module, equipped with 16 points, has a width of 11.5 mm. Up to 64 modules can be connected per station, allowing multi-point configuration, realizing space-saving. Moreover, when an external power supply is connected to coupler modules and extended power supply modules, the power is supplied to all modules. Thus, it is unnecessary to connect the power to each I/O module.

## Reduce downtime and maintenance costs

The NZ2FT Series slice type remote I/O module has LEDs for each terminal. Therefore, operation can be easily checked, reducing maintenance costs. The slice I/O module also supports a hot swap function that enables module replacement with the power on, reducing downtime.

## Dedicated setting tool (Web server)

Parameters can be set using GX Works3 or Web server, a dedicated setting tool built in a coupler module. This dedicated setting tool includes features such as monitoring/diagnostics and functional tests, helping to reduce engineering time and machine costs.

## Detachable push-in type connector

Equipped with a push-in type spring clamp terminal block, wiring is easy just by inserting a ferrule terminal or bar terminal. Moreover, the detachable connector enables harness connection after wiring, shortening wiring time.
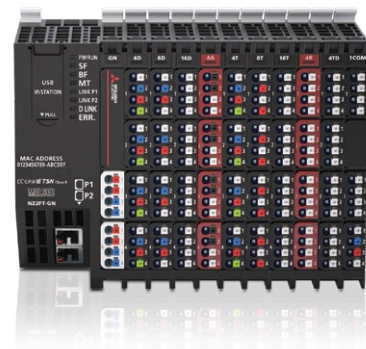
### Highlights

- Space-saving simple configuration
- Less wiring time with detachable push-in type connector
- Less downtime with a hot swap function
- Setting tool built in a coupler module

# Flexible system configuration combining with slice I/O modules with various functions

The NZ2FT Series slice type remote I/O modules are thin modules connectable each other. A flexible and compact system can be configured by selecting modules with various functions and different input/output points. The dedicated setting tool built in a coupler module enables intuitive parameter settings and monitoring/diagnostics.
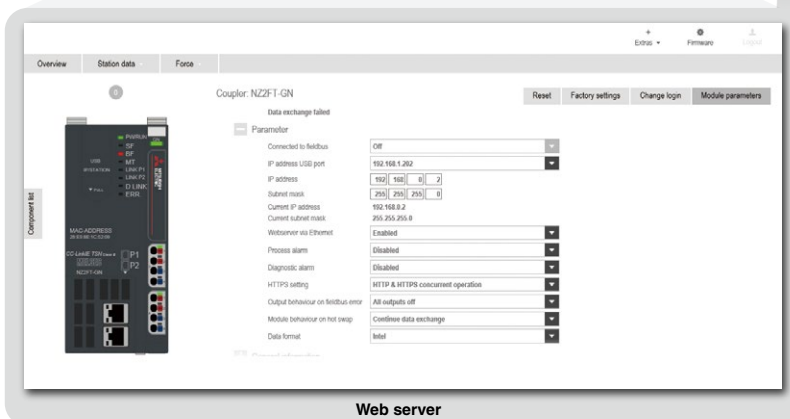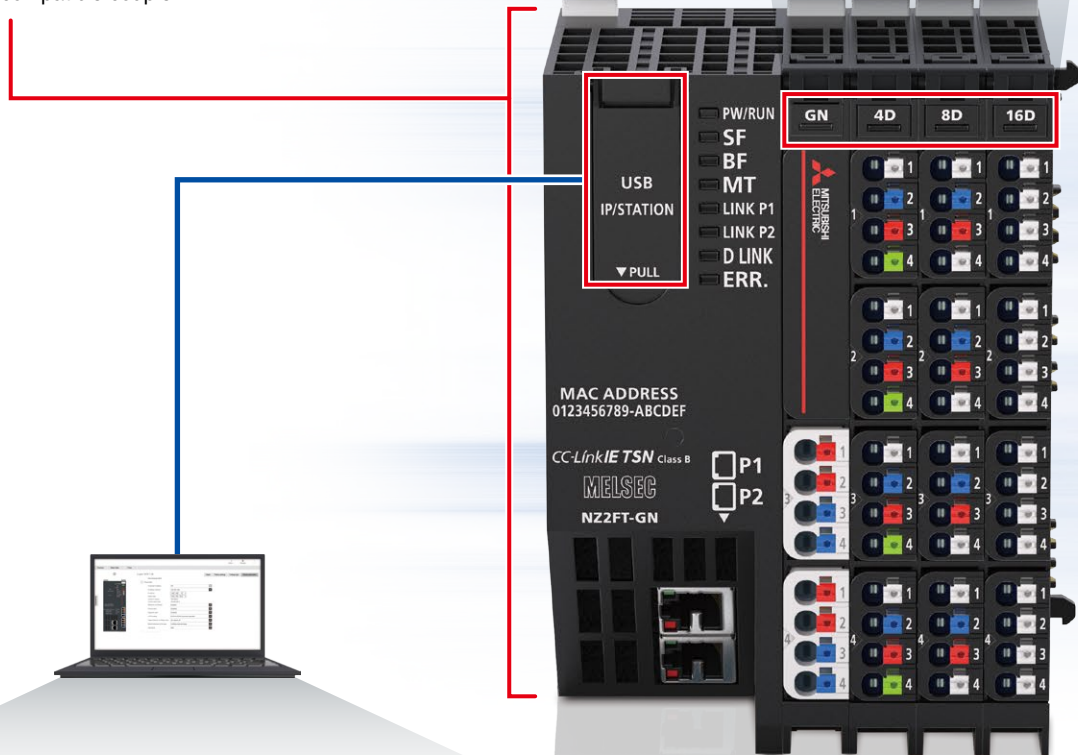
## LEDs show error status

Each module is equipped with an LED that visually shows error status. The error status can be checked instantly, reducing startup and maintenance time.
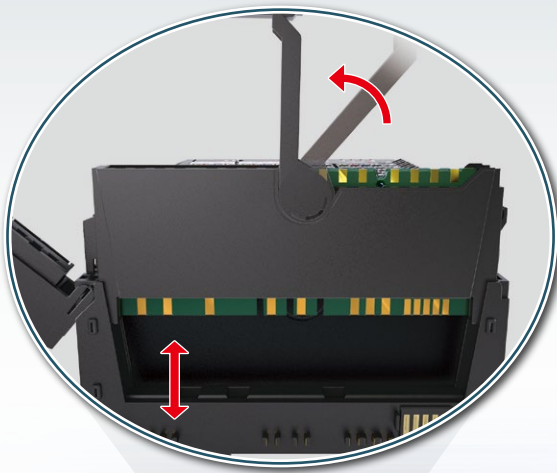
## Supports CC-Link IE TSN

The module can be used in the CC-Link IE TSN system by connecting a CC-Link IE TSN compatible coupler.
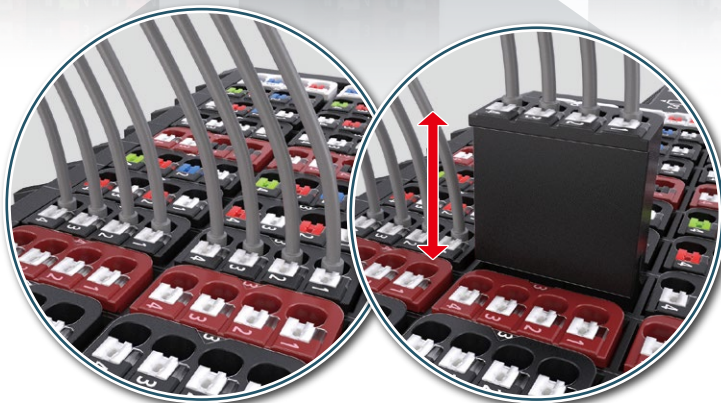
## Dedicated software Web server

The built-in Web server enables parameter setting even before a system is established. Additionally, error status can be checked on the Web server screen, helping to reduce system downtime.

**Web server**

## Supporting hot swap

Without turning the power off, modules can be attached or detached, reducing the machine downtime.
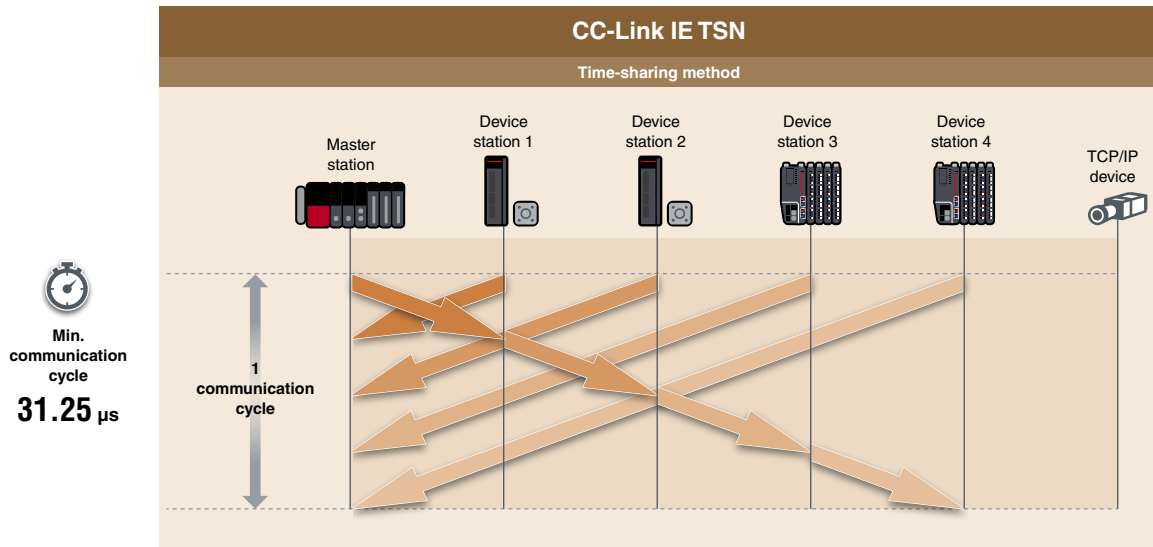


## Detachable push-in type connector

Devices such as sensors and actuators can be connected to the slice I/O module with detachable push-in type connectors. Those connectors can be easily attached and detached, eliminating maintenance such as retightening of screws.
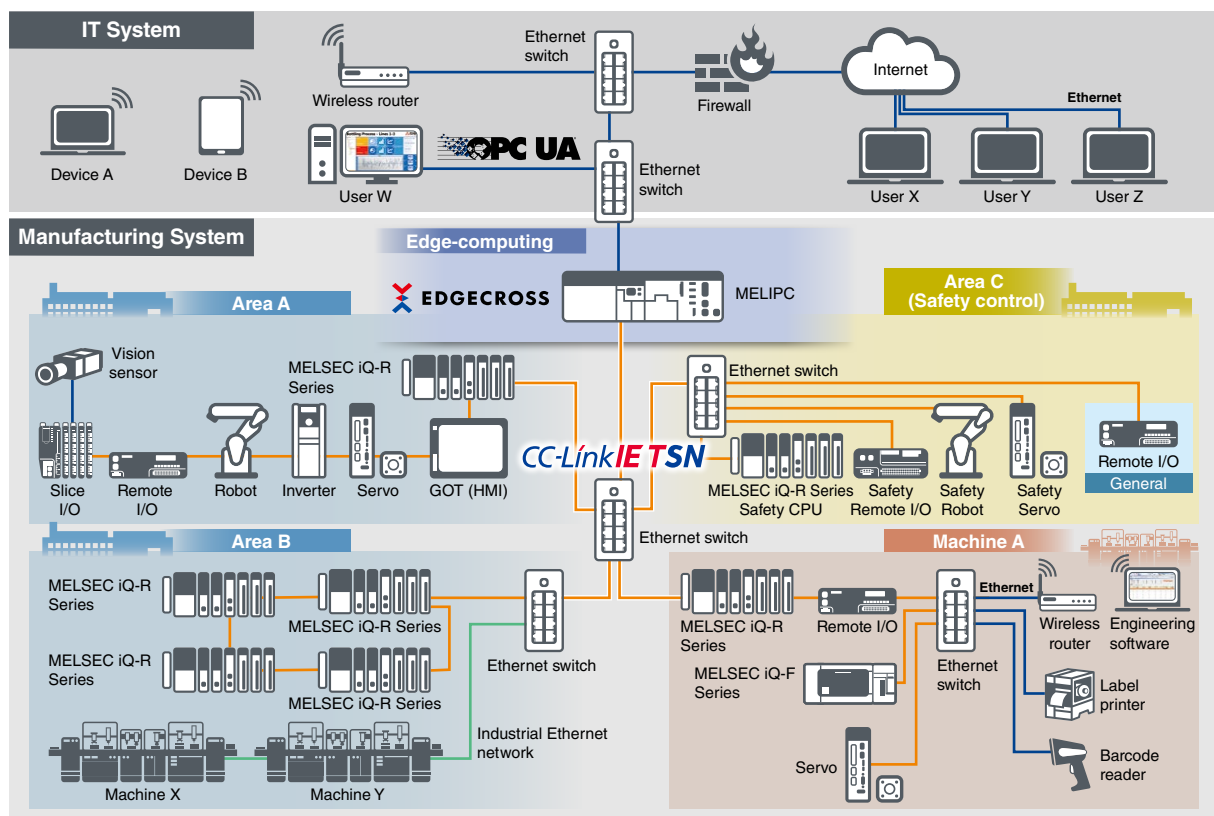
## CC-Link IE TSN compatible module improves productivity with high speed processing

With the addition of the CC-Link IE TSN compatible coupler, the slice I/O supports CC-Link IE TSN. The advanced protocol built into CC-Link IE TSN is complemented by the time-sharing method functionality that enables bidirectional communications between network stations. This realizes fast communication cycle time of just 31.25 μs, resulting in high-speed, highly accurate motion control. Productivity is simultaneously improved owing to a substantial increase in control performance, which reduces overall operating time.



## CC-Link IE TSN - Open integrated network across the manufacturing enterprise -

CC-Link IE TSN supports TCP/IP communications and applies it to industrial architectures through its support of TSN enabling real-time communications. With its flexible system architecture and extensive setup and troubleshooting features make CC-Link IE TSN ideal for building an IIoT infrastructure across the entire manufacturing enterprise.
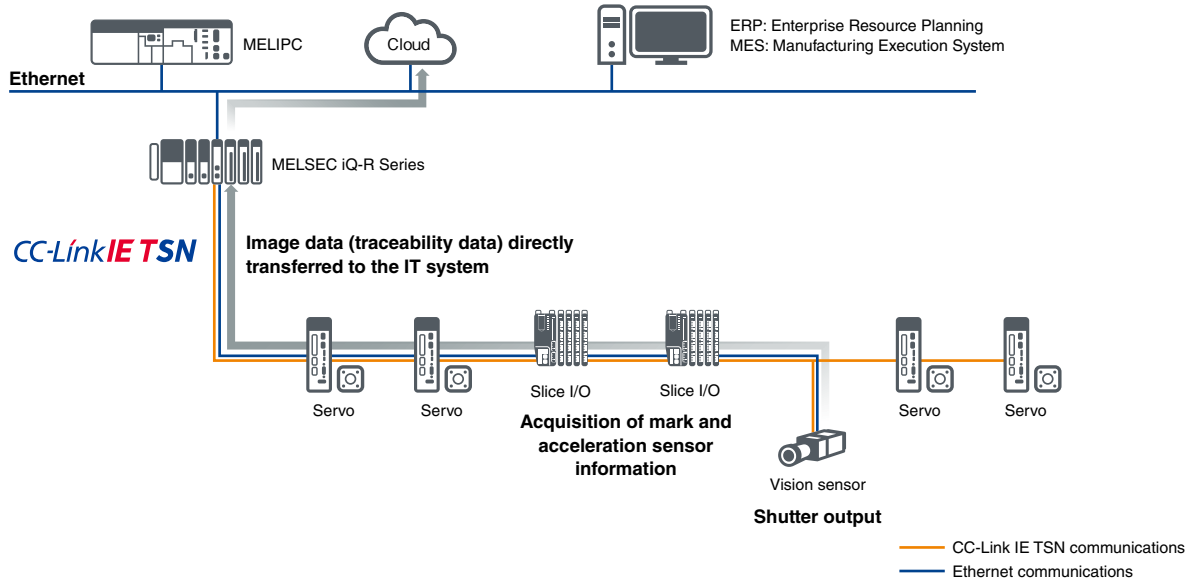
## Product list

### Slice I/O module specifications

| Item | | Specifications |
|---|---|---|
| **Couplers** | | |
| NZ2FT-GN | | CC-Link IE TSN supported |
| NZ2FT-BT | | CC-Link supported |
| NZ2FT-PN | | PROFINET® supported |
| NZ2FT-PBV | | PROFIBUS® DP-V0/V1 supported |
| NZ2FT-MT | | MODBUS®/TCP supported |
| NZ2FT-EIP | | EtherNet/IP™ supported |
| **I/O modules** | | |
| DC input | NZ2FTS4-4DE | 4 points, 24 V DC, negative common, 4-wire |
| | NZ2FTS3-8DE | 8 points, 24 V DC, negative common, 3-wire |
| | NZ2FTS1-16DE | 16 points, 24 V DC, negative common, 1-wire |
| | NZ2FTS4-4D | 4 points, 24 V DC, positive common, 4-wire |
| | NZ2FTS3-8D | 8 points, 24 V DC, positive common, 3-wire |
| | NZ2FTS1-16D | 16 points, 24 V DC, positive common, 1-wire |
| AC input | NZ2FTS2-4A | 4 points, 110…230 V AC, 2-wire |
| Transistor output | NZ2FTS4-4TE | 4 points, 24 V DC (0.5 A), source, 4-wire |
| | NZ2FTS4-4TE1 `NEW` | 4 points, 24 V DC (2 A), source, 4-wire |
| | NZ2FTS2-8TE | 8 points, 24 V DC (0.5 A), source, 2-wire |
| | NZ2FTS1-16TE | 16 points, 24 V DC (0.5 A), source, 1-wire |
| | NZ2FTS4-4T | 4 points, 24 V DC (0.5 A), sink, 4-wire |
| | NZ2FTS2-8T | 8 points, 24 V DC (0.5 A), sink, 2-wire |
| | NZ2FTS1-16T | 16 points, 24 V DC (0.5 A), sink, 1-wire |
| Contact output | NZ2FTS3-4R | 4 points, 255 V AC/24 V DC (6 A), 3-wire |
| **Analog input modules** | | |
| NZ2FTS-60AD4 | | 4 channels, −10…10 V DC, 0…20 mA DC, conversion speed: 1 ms/channel |
| NZ2FTAS-60AD4 `NEW` | | 4 channels, −10…10 V DC, 0…20 mA DC, conversion speed: 1 ms/channel, Individual channel diagnostics |
| **Analog output module** | | |
| NZ2FTS-60DA4 | | 4 channels, −10…10 V DC, 0…20 mA DC, conversion speed: 1 ms/4 channels |
| **Temperature input modules** | | |
| NZ2FTS-60RD4 | | 4 channels, RTD input |
| NZ2FTS-60TD4 | | 4 channels, thermocouple input |
| **High-speed counter module** | | |
| NZ2FTS-D62P2 | | 2 channels, 24 V DC |
| **Absolute encoder module** | | |
| NZ2FTS-D66D1 | | 1 channel, SSI absolute encoder input |
| **Serial communication module** | | |
| NZ2FT-C24 | | RS-232/RS-485/RS-422: 1 channel |
| **Extension power supply modules** | | |
| For input modules | NZ2FTPDI | DC power supply, 24 V DC |
| For output modules | NZ2FTPDO | DC power supply, 24 V DC |

## Application - Printing machines -

Printing machines now require multiple functionality that enables efficient production of printed media in various runs, shapes and colors while maintaining high-quality print and productivity. The CC-Link IE TSN compatible slice I/O module enables highly accurate synchronization of multiple axes between various printing processes such as converting (paper infeed/outfeed), printing, processing, binding, and sorting. Together with the integration of various sensors, highly scalable printing systems can be realized.

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