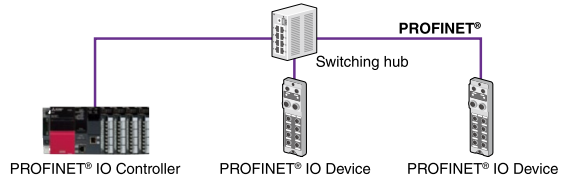# PROFINET® IO Controller Module
RJ71PN92
PROFINET® system compatible

PROFINET® is an industrial network developed and managed by PROFIBUS&PROFINET International (PI). PROFINET® is a well-known and widely used network originating from Europe.

Connection to PROFINET® IO devices

PROFINET® module operates as an IO controller and supports integration into control systems based on the PROFINET® network.

PROFINET® IO controller module specifications

Item	RJ71PN92
Data exchange	
Max. input data length per network (word)	4096
Max. output data length per network (word)	4096
Max. input data length per IO device (byte)	1437
Max. output data length per IO device (byte)	1437
Cycle time (ms)	512 (max.), 1 (min)*1
Service interface	
Maximum transmission capacity per request (byte)	4116
Maximum number of connectable IO devices	128
Data transmission speed*2 (bps)	1G/100M/10M

*1. The cycle time depends on the number of IO devices and the input/output data length.
*2. Data communications at 100 Mbps is recommended.

PROFINET®
Switching hub
PROFINET® IO Controller   PROFINET® IO Device   PROFINET® IO Device

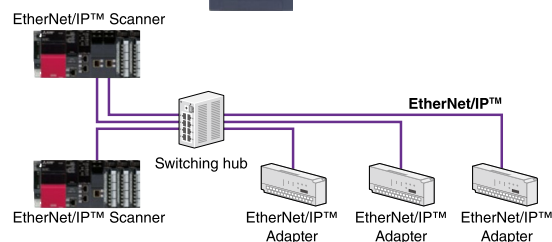# EtherNet/IP™ Scanner Module
RJ71EIP91
EtherNet/IP™ system compatible

EtherNet/IP™ is an open and global industrial network that adopts CIP™ (Common Industrial Protocol) to standard Ethernet. Widely used in the United States, EtherNet/IP™ and CIP™ technologies are managed by ODVA®, Inc.

Connection to EtherNet/IP™ compatible devices

EtherNet/IP™ Scanner

EtherNet/IP™ module operates as a scanner, and supports both standard EtherNet/IP™ and tag communications. This enables simultaneous connection between sensors, actuators and programmable controllers with one module.

EtherNet/IP™
Switching hub
EtherNet/IP™ Scanner   EtherNet/IP™ Adapter   EtherNet/IP™ Adapter   EtherNet/IP™ Adapter

EtherNet/IP™ scanner module specifications

Item	RJ71EIP91
Class 1 communications	
Communication format	Standard EtherNet/IP™, tag communications
Number of connections*3	Standard EtherNet/IP™: 256, Tag communications: 256
Communication data size (byte)	1444 (per connection)
Connection type	Point-to-point, multicast
RPI (communication cycle)	0.5…60000 ms
Class 3 communications	
Communication format	Standard EtherNet/IP™
Number of connections	Server: 256*3, Client: None
Communication data size (byte)	1414 (per connection)
Connection type	Point-to-point
UCMM communications	
Communication format	Standard EtherNet/IP™
Number of connections (number of simultaneous executions)	Server: 96, Client: 32
Communication data size (byte)	1414
Connection type	Point-to-point

*3. The total number of connections for Class 1 and Class 3 communications is 256.

System configuration
CPU
I/O
Analog
Motion, Positioning, High-speed Counter, Channel isolated pulse input
Network
Advanced information
Technology
Software