

Partner Product

EBG 213-EN

softing
your connection to excellence

**MITSUBISHI
ELECTRIC**
FACTORY AUTOMATION

NETLink PRO/ETH

Interface for Siemens S5 and S7 Controllers

Faster and easier

Data import to MES



e-Factory
Partner Product

**SIMPLER
OPERATION** 

Does not require the PLC's Ethernet module

**INTELLIGENT
DESIGN** 

No changes to existing hardware

**SPEED
UP** 

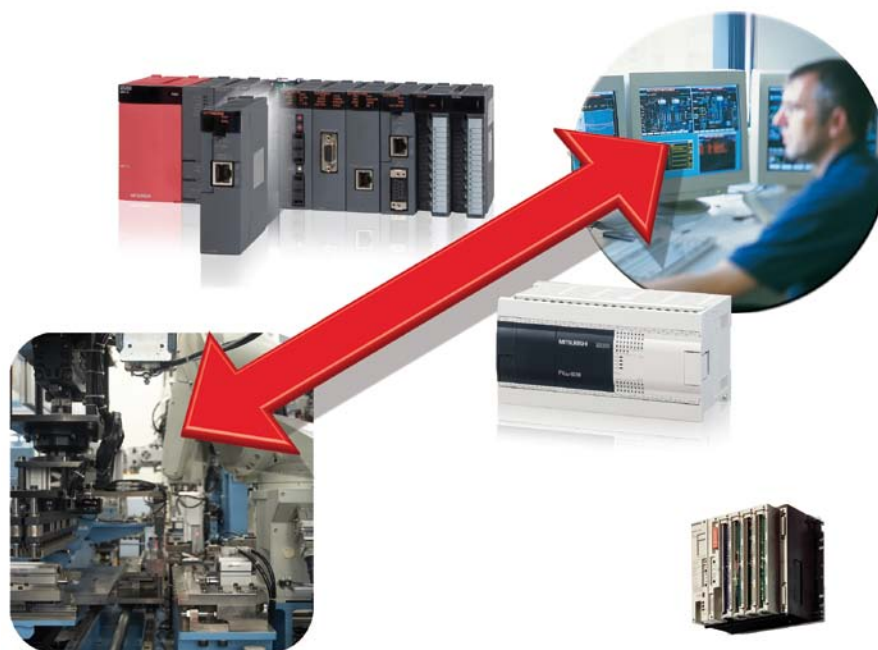
Very easy to configure

**SCALABLE
SOLUTION** 

Bridges long distances to the PLC via Ethernet

Enhanced flexibility

Reduced costs



S5 controller photos © Siemens AG 2010, all rights reserved

Easy integration of field and process data in MES and CRU systems

MES solutions

Our MES IT module is part of the iQ Platform, combining the best of the worlds of IT and factory automation in a single module that you just plug into the Mitsubishi iQ PLC's base unit.

The module has the high reliability and long service life you expect from hardware for heavy-duty industrial applications. It also opens up more flexible configuration options, eliminating the need for time-intensive programming.

This pioneering technology makes it possible for devices on the production level to send large volumes of user-selectable data directly to a local or higher-level management system and connected databases in real time.

Ready-to-use drivers are available for all standard databases, including MS SQL, Oracle and MySQL.

Fast and simple

One of these devices is the NETLink PRO/ETH, an adapter for Siemens S7 controllers from our e-F@ctory Alliance partner Softing AG.

This unique interface gives you optimum access to your Siemens S5 and S7 controllers without needing to install an Ethernet communications processor in the Siemens controller.

This quick and simple solution is a cost-effective alternative, enabling you to read data from your Simatic PLCs and pass it on to the MES IT module without any changes in your system configuration.

Flexible solution

NETLink PRO/ETH is a Profibus/MPI to Ethernet adapter. Instead of connecting S5 and S7 controllers to a PC via an Ethernet link, you just plug the NETLink PRO/ETH directly into the MPI interface of the S7 controller. You can then connect to the network card in the PC via a hub, a switch or directly with a cross-link cable. Since it uses the standard TCP/IP protocol, the system can then be controlled via a VPN, a router or an Internet connection.

Just connect to cut costs

The NETLink PRO/ETH has a 1.2 m cable for direct connection to the MPI interface on the controller or the Profibus. One NETLink PRO/ETH can communicate with up to 12 controllers simultaneously. NETLink PRO/ETH also cuts your costs, because you don't need any communications processors (CP) or special software. NETLink PRO is compatible with the Siemens tools STEP7, WinCC and ProTool/Pro and Softing S7/S5 OPC Server.

Stable and efficient data communications

The NETLink PRO/ETH's bus cable provides an active connection to the interference-free MPI/Profibus link. The second PG socket enables connection of additional devices to the S7 controller. NETLink PRO/ETH automatically identifies the baud rate on the MPI or Profibus (up to 12, Mbit/s supported) and the 10 or 100 Mbit/s Ethernet network transfer rate. In addition to direct power supply from the controller, it is also possible to use an external 24 V power supply. The bus is always electrically isolated from the Ethernet side. You can connect up to seven NETLink PRO/ETH modules to a single PC.

Programming and visualisation

In addition to transferring data to an MES IT module and providing programming access to the S7 controller, the NETLink PRO/ETH can also be combined with the Softing S7/S5 OPC Server to create an ideal access point to visualisation systems.

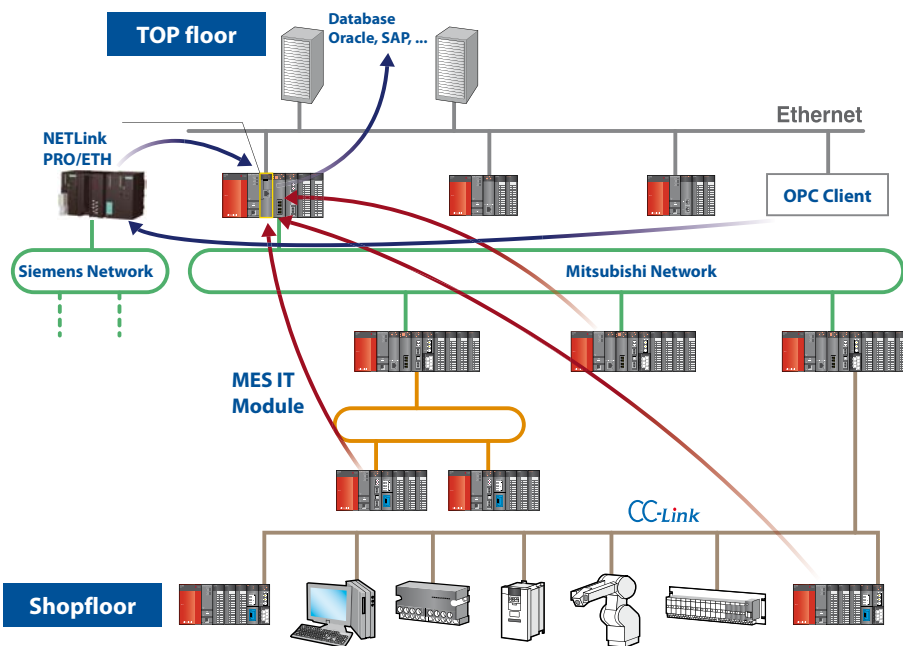


Use standard Ethernet components

Direct integration of the InTouch software package from Wonderware, another Mitsubishi e-F@ctory partner, and the PX Developer configuration software package for Mitsubishi Electric process controllers, drastically reduces the time required for developing applications.

Benefits

- Up to 7 simultaneous Ethernet connections
- Up to 12 simultaneous PLC connections
- PLC communication with up to 12 Mbits/s via MPI or Profibus
- Ethernet 100BASE-TX/10BASE-T
- RFC1006
- Automatic identification of communications speeds
- Active bus line for interference-free connections
- Power supply from controller or external source
- Can be installed on a standard top hat rail



Simple database connections across proprietary boundaries

Connectivity ///

Shop Floor

MES Interface IT

IT-Server

Mitsubishi PLCs:
IQ, Q, AnS, FX

Third party devices
Controllers/PLCs
Omron, Rockwell,
Siemens

IPCs
RFID reader

Intelligent devices
(ex. vision systems)

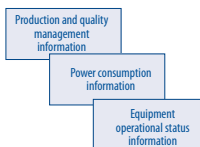
Devices
(ex. nut runners)



Message communication



Simple setting procedure
using the Workbench
setting tool!



Message communication



To Enterprise
systems and
databases

Direct connection to information systems

Terms used:

CRM	Customer Relationship Management
ERP	Enterprise Resource Planning
ESB	Enterprise Service Bus
IBM MQ	IBM Message Queue
JMS	Java Messaging Service
MES	Manufacturing Execution System
PAC	Programmable Automation Controller
PLC	Programmable Logic Controller
ROI	Return On Investment
SIB	Service Integration Bus
SOA	Service Oriented Architecture

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