

Independent Communication Module

PROFINET
EtherNet/IP™



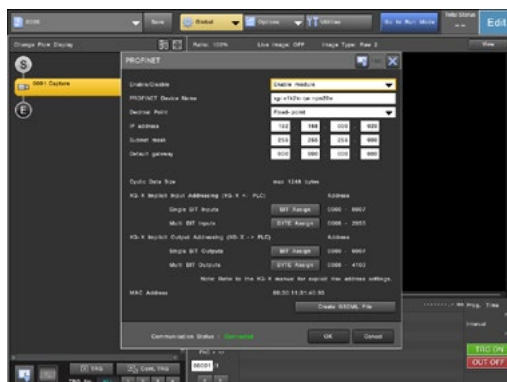
Independent PROFINET and EtherNet/IP™ communication allows for the implementation of separate networks for control system and image output

Communication Module

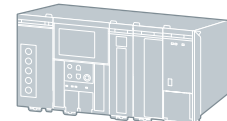
CA-NPN20E (PROFINET-compatible) /
CA-NEP20E (EtherNet/IP™-compatible)



By adding a communication module to the XG-X/CV-X Series controller, the network for control communication and the network for image output / monitor communication become independent. This enables data communication with a high speed cycle as short as 1 ms.



Manufacturers that support connection



PROFINET
SIEMENS
OMRON

EtherNet/IP™
KEYENCE
Rockwell
OMRON

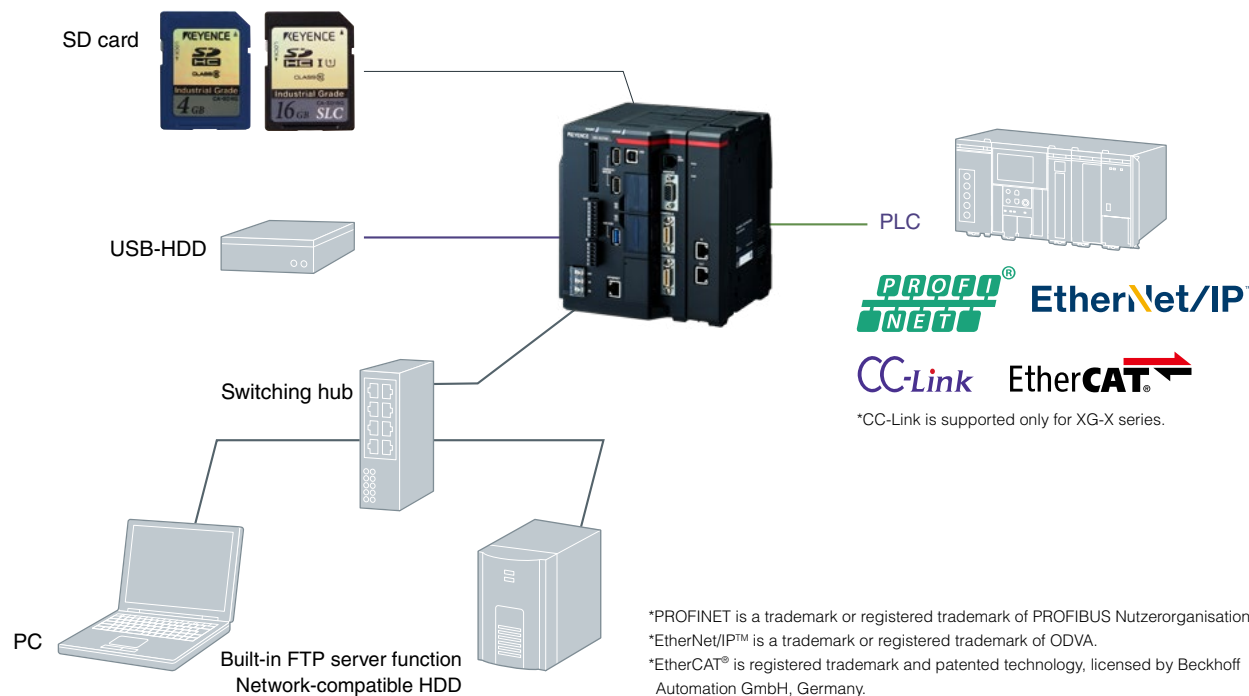
Built-in PROFINET, EtherNet/IP™ communication trace log

The flow process and I/O communication timing chart can be confirmed in chronological order. With the improved communication data log, it is now possible to check the transmission/reception of data between the vision controller and the PLC at specified times.



Various interfaces can be incorporated into existing systems

A variety of communication methods are supported for connection with the PLC. Result data and commands are exchanged via data memory by simply selecting the connection type needed. Discrete I/O, RS-232C, Ethernet, USB and SD Card connections are equipped as standard on the main vision controller.



Basic Specifications (CA-NPN20E / CA-NEP20E)*

Item

Compliant standards	IEEE802.3u (100BASE-TX)
Transmission rate	100 Mbps (100BASE-TX)
Transmission medium	STP cable, category 5e or above
Max. cable length	100 m 328.1' (length between the main unit and the Ethernet switch)
Communications port	RJ45 connector x 2

*compatible with XG-X Series and CV-X300/400 Series controllers

PROFINET Communication Specifications

Item

Supported functions	Data I/O communication record data communication
Update Time	Shortest time: 1 ms
Cyclic communication size	1248 bytes
Applicable protocol	LLDP, DCP, MRP, SNMP
Conformance test	Conformance Class C Ver.2.34

EtherNet/IP™ Communication Specifications

Item

Supported functions	Cyclic communication (Implicit messaging) Message communication (Explicit messaging) UCMM and Class 3 compatible
RPI	Shortest time: 1 ms
Cyclic communication size	1436 bytes
Conformance test	CT16

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SAFETY INFORMATION

Please read the instruction manual carefully in order to safely operate any KEYENCE product.

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