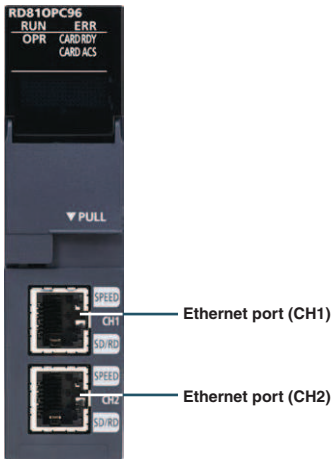
OPC UA Server Module

RD81OPC96

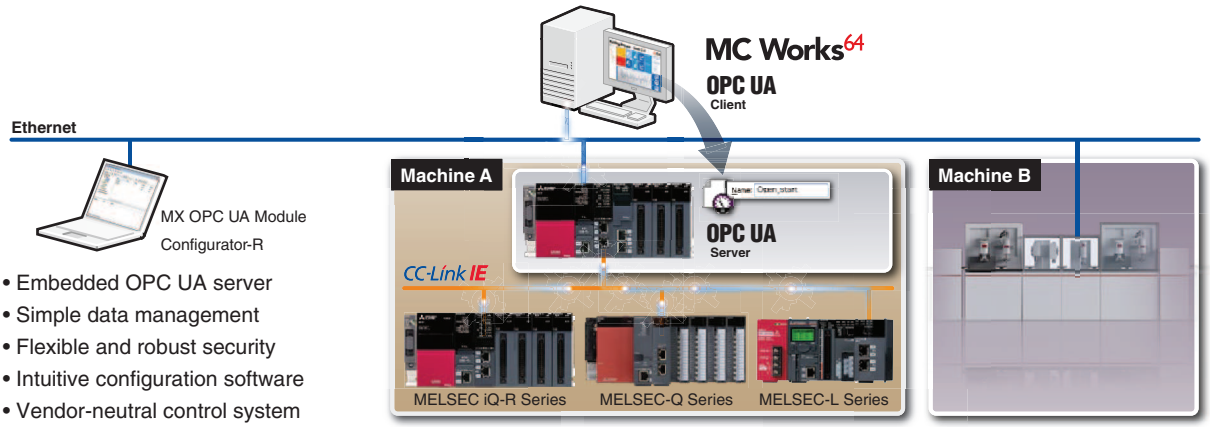
Embedded OPC UA server



The MELSEC iQ-R Series OPC UA server module integrates the OPC UA server directly into the equipment control system as a robust alternative to a computer-based configuration. OPC Unified Architecture (OPC-UA) is a platform-independent communications standard developed by the OPC foundation that offers reliable and secure data communications between the manufacturing-level and IT-level systems.

Embedded OPC UA server improves system reliability and reduces cost

The OPC UA server module can be installed directly on the MELSEC iQ-R Series base unit realizing an embedded OPC UA server within the machine. This improves reliability by eliminating the requirement for a computer-based server, which can be vulnerable to high security risks such as computer viruses. Less hardware maintenance is required, reducing overall system cost as industrial control systems have a longer product service life compared to computers. Efficient tag data management provided utilizing data structure format and storage of tag names within the equipment. Implementation of an IT system is improved such as with SCADA simply by selecting the stored tag.



- Embedded OPC UA server
- Simple data management
- Flexible and robust security
- Intuitive configuration software
- Vendor-neutral control system

Robust security with protection against unauthorized data access

OPC UA security function such as certificate, encrypt and signature can be set based on system requirements. Security is enhanced by having two Ethernet ports, enabling separation of the IT and shop floor networks.

OPC UA server module software specifications

Item		RD81OPC96
Basic operating specifications		
Connection method		Ethernet IPv4
Simultaneously connected configuration software		1
Device memory input/output specifications		
Max. number of tags		10000
Access device	Max. number	8
	Type	• RCPU • QCPU (Q mode) • LCPU
Data collection period	Max. number of definitions	8
	Setting cycle	200 ms…24 h
Max. number of conversion definitions		256
Connected OPC UA clients		
Max. number of connections		15
Connectable Ethernet port		CH1

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).