

Easy and reliable way to adopt IoT for production sites

NEW

Easy and quick setup and commissioning



QoS for EtherNet/IP™ can be easily enabled without software settings (by turning ON a DIP switch).



Easy wiring by push-in connector reduces wiring time by 60%.*2



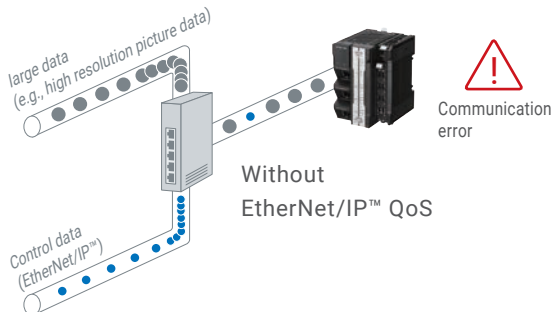
Environmental resistance for industrial use and QoS function*1 contribute to stable operation

Noise and vibration resistant for industrial use maintains reliable data transfer.

The QoS function optimizes for EtherNet/IP™ communication required for machine control.

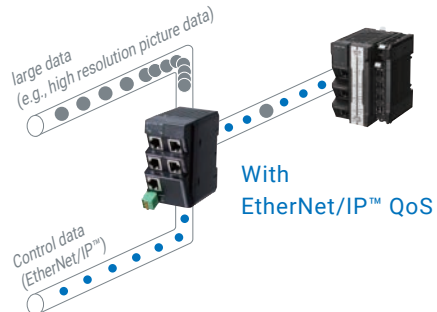
FROM

Delay of control data due to large data transfer can cause unstable machine operation.



TO

QoS ensures delivery timing of control data even when network traffic is congested by large data.



Energy saving

Conventional model
W4S1-05B



New product
W4S1-05D



Current consumption
reduced by 70%*3

*1. Quality of Service (traffic prioritization control)

*2. Compared with Omron's screw type in February 2021.

*3. Compared with Omron's conventional model in February 2021.

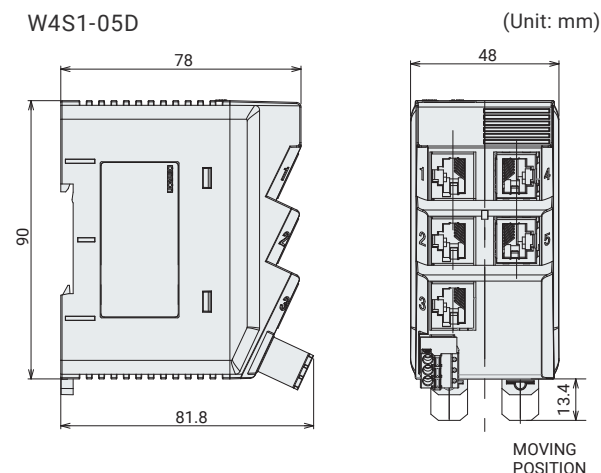
Ordering Information

Product name	No. of ports	Accessories	Model
Industrial Switching Hub	5	Power supply connector	W4S1-05D

Functions

No. of ports (RJ45)	5
Ethernet standards	IEEE 802.3 10BASE-T, 100BASE-TX
Auto MDI/MDI-X	Yes
Auto Negotiation	Yes
Store-and-Forward system	Yes
Buffer	125 KB
Broadcast Storm Detection Function	Yes
QoS for EtherNet/IP	Yes
SNMP	No
VLAN	No
STP	No
IGMP Snooping	No
Port mirroring	No

Dimensions



Specifications

Current consumption	70 mA	Vibration Resistance	Conforms to IEC 60068-2-6 5 to 8.4 Hz, 3.5 mm amplitude, 8.4 to 150 Hz, acceleration 9.8 m/s ²
Power supply voltage	24 VDC (20.4 to 28.8 VDC)	Shock Resistance	Conforms to IEC 60068-2-27 196 m/s ²
Power consumption	1.68 W max.	Enclosure	Mounted in a panel
Wire Type	0.14 to 1.5 mm ²	Atmosphere	Must be free from corrosive gases.
Switching capacity (Switching fabric) *1	700 Mbps	Ambient operating temperature	0 to 55 °C (with no icing or condensation)
Ground method	Ground to less than 100 Ω.	Ambient operating humidity	10 % to 95 % (with no condensation)
Dielectric strength	1 mA at 250 VAC for 1 minute (Between LAN connectors and between FG and power supply connectors)	Ambient storage temperature	-20 to 75 °C (with no icing or condensation)
EMI and EMS	IEC 61000-6-4 Conforms to IEC 61000-6-2	Applicable standards	cULus, EU, RCM, KC

*1 Switching capacity per Unit.

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The product photographs and figures that are used in this catalog may vary somewhat from the actual products.

Note: Do not use this document to operate the Unit.

OMRON Corporation Industrial Automation Company

Kyoto, JAPAN

Contact : www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.

Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31) 2356-81-300 Fax: (31) 2356-81-388

OMRON ASIA PACIFIC PTE. LTD.

438B Alexandra Road, #08-01/02 Alexandra
Technopark, Singapore 119968
Tel: (65) 6835-3011 Fax: (65) 6835-3011

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-6023-0333 Fax: (86) 21-5037-2388

Authorized Distributor:

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