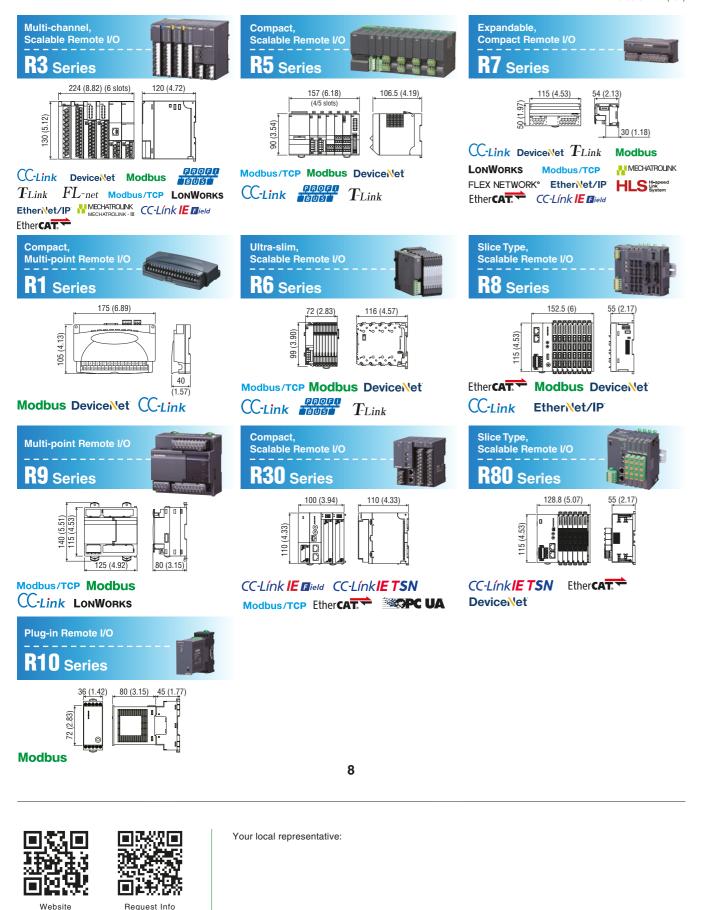
Remote I/O Series Lineup





What is Remote I/O?

Remote I/O, otherwise called distributed I/O, refers to electronic devices that use transmission technology to send and receive input and output signals to/from master electronics like DCS, PLC and PCs often in the fields of process or factory automation. Remote I/O communication uses open networks with open communication protocols. We support our customers with a line up of Remote I/O solutions that use globally accepted major open networks like Modbus, CC-Link, MECHATROLINK, PROFIBUS, etc.

MG CO., LTD. (formerly M-System Co., Ltd.)

www.mgco.jp

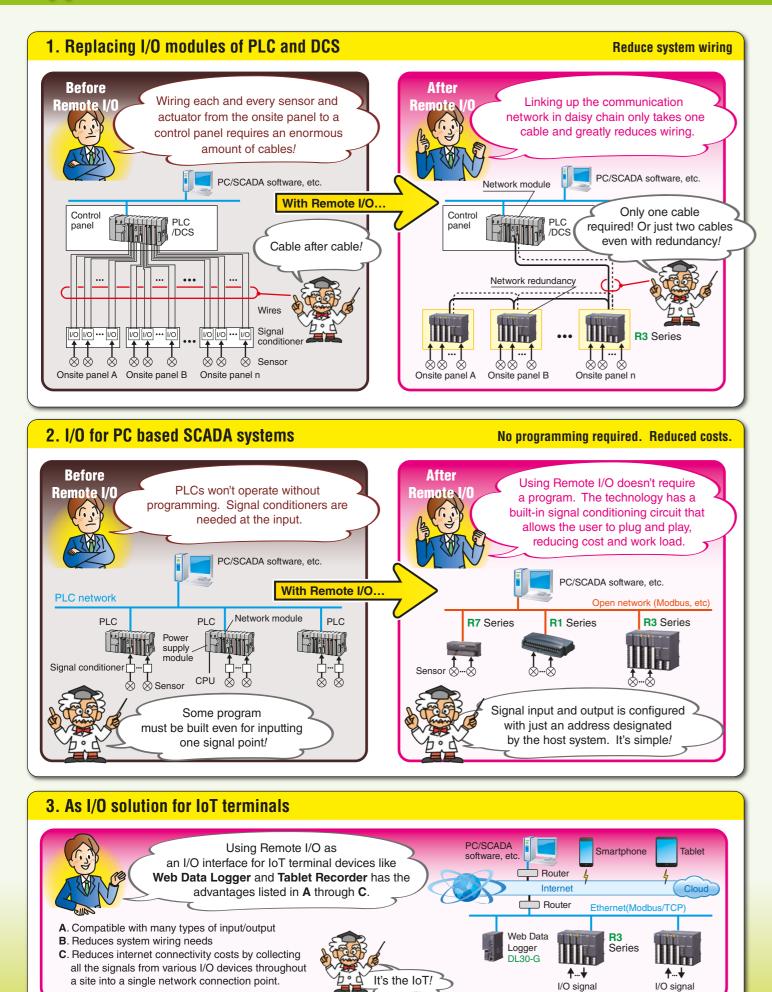
Dimensions in mm (inch)

Series

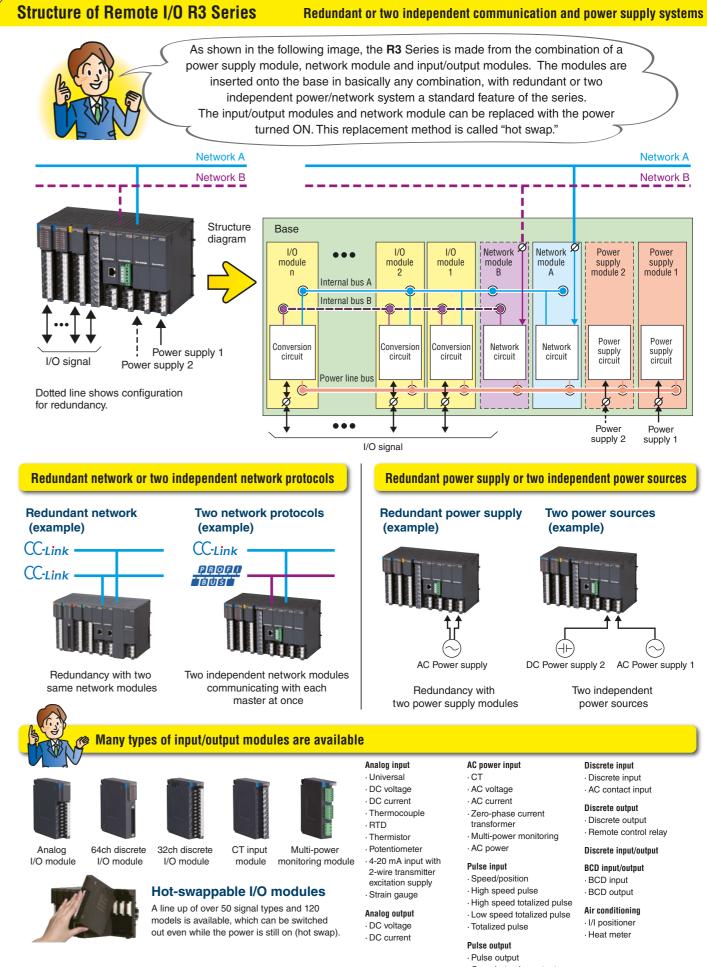
Remote I/O

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Make Greener automation

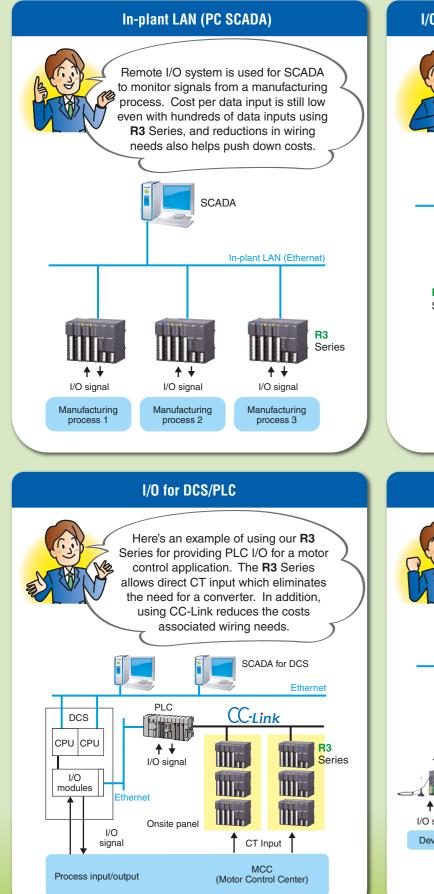


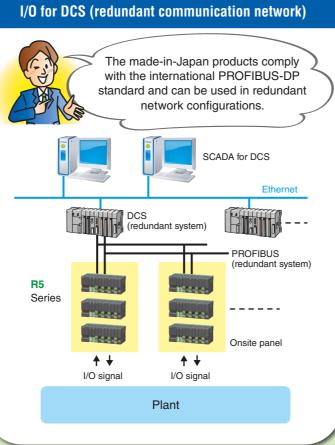
Remote I/O Features Explained Using R3 Series



- · One-shot pulse output

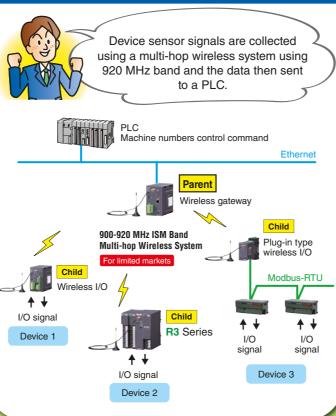
Examples of Remote I/O Applications



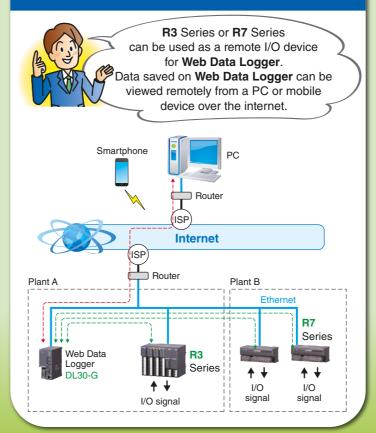


I/O for Tablet Recorder Here's an example of using a remote I/O for several testing devices distributed in different locations to collect measurement data by Tablet Recorder over a LAN line. Tablet Tablet Recorder **TR30** 3 WLAN router Ethernet R3 Series **R7** Series . ♦ ♦ + + + + I/O signal I/O signal I/O signal Device 1 Device 2 Device 3

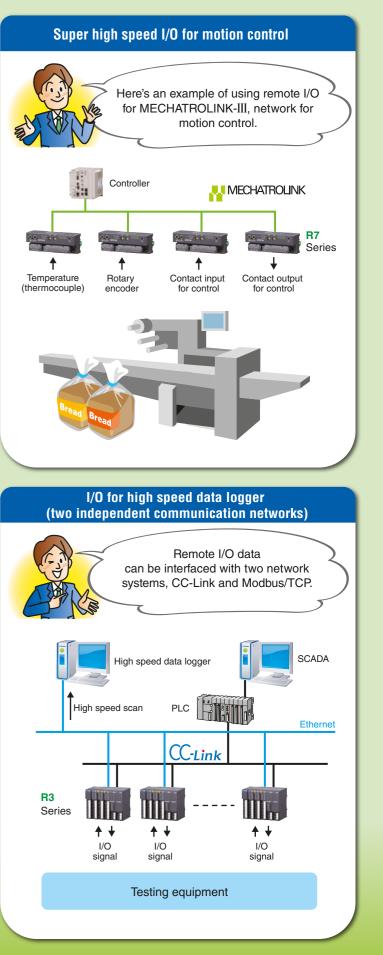
Wireless remote I/O



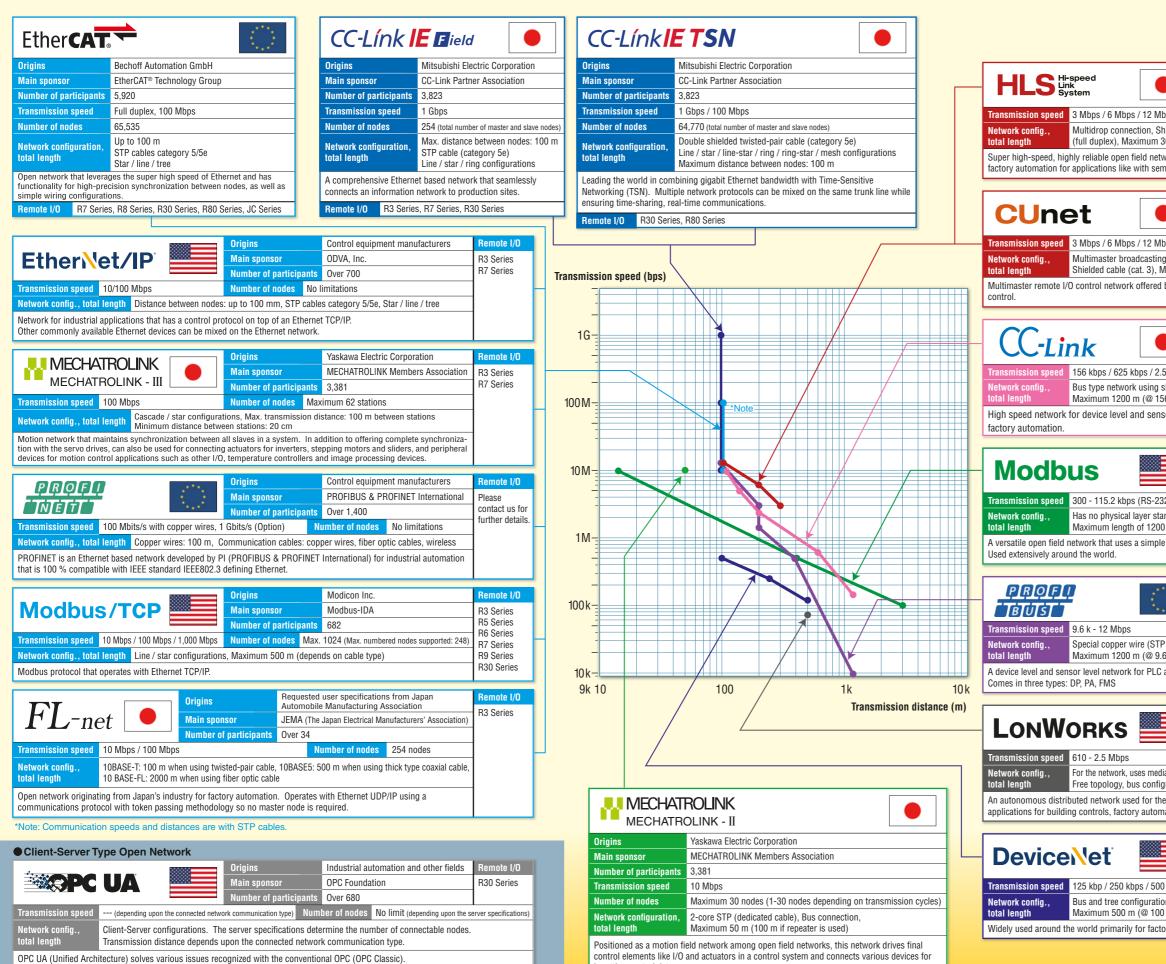
Internet connection







Open Networks in Terms of Communication Speeds and Transmission Distance



inputting control data.

Remote I/O R7 Series

Based on SOAP/XML/Web services, it realizes high-security data communication without depending upon the platform

	Origins	Step Technica Co., Ltd.	Remote I/O
	Main sponsor		R7 Series
	Number of participa	nts	JC Series
lbps	Number of nodes Maximum 63 nodes		1
hielded twisted-pair cable (half duplex) or shielded 4-core twisted-pair cable 300 m (@ 3 Mbps)			•
work offe miconduc			

	Origins	Step Technica Co., Ltd.	Remote I/O
	Main sponsor		JC Series
	Number of participants		1
lbps	Number of nodes M	aximum 64 nodes	
ng, Multidrop connection (RS-485). Maximum 300 m (@ 3 Mbps)			
I by Step Technica, which supports discrete I/O, analog I/O and positioning			

	Origins	Mitsubishi Electi	ric Corporation	Remote I/O
	Main sponsor	CC-Link Partner	Association	R1 Series
	Number of participar	nts 3,823		R3 Series
.5 Mbps / 5 Mbps / 10 Mbps Ni		Number of nodes	Maximum 64 nodes	R5 Series R6 Series
shielded 3-core twisted-pair cable. 56 kbps). Also has fiber optic repeater.				R7 Series R8 Series
sor level PLCs (by Mitsubishi Electric) widely used primarily for				R9 Series

	Origins	Control equipment manufacturers		Remote I/O
Main sponsor		Modbus Organiz	Modbus Organization	
	Number of participan	ts 682		R3 Series
32-C), Max. 10 Mbps (RS-485) N		Number of nodes	Maximum 247 nodes	R5 Series R6 Series
andards and typically uses serial connections like RS-232-C or RS-485. 0 m when using RS-485 (depends on communication speed)				R7 Series R8 Series
e protocol and can be used on multiple levels.			R9 Series R10 Series	

** <u>.</u> -	Origins	Control equipment manufacturers	Remote I/O
	Main sponsor	PROFIBUS & PROFINET International	R3 Series
. · *	Number of participar	ts Over 1,400	R5 Series
	Number of nodes	Maximum 126 nodes	R6 Series
P cable) or fiber optic cable with bus / ring / tree configurations. 6 kbps)			
and DCS	G used around the world	I but heavily in Europe.	

	Origins	Echelon Corporation	Remote I/O
	Main sponsor	LonMark International	R3 Series
	Number of participant	s Over 850	R7 Series
	Number of nodes 6	4 nodes/subsystem (FTT-10)	R9 Series
ia like twisted-pair cables, power line cables, coaxial cables and fiber optic cables. gurations. Maximum 2700 m (twisted-pair cables)			
e controller, device and sensor levels. Comes in a wide variety of nation and home automation.			

			-	
	Origins	Control equipment manufacturers	Remote I/O	
	Main sponsor	ODVA, Inc.	R1 Series	
	Number of participa	nts Over 700	R3 Series	
0 kbps	Number of nodes	Maximum 64 nodes	R5 Series R6 Series	
ons made with shielded 4-core twisted-pair cables. 0 kbps)			R7 Series R8 Series	
ory automation applications as a device level network for PLC and DCS.			R80 Series	