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Device/PLC Connection Manuals



About the Device/PLC Connection Manuals

Prior to reading these manuals and setting up your device, be sure to read the "Important: Prior to reading the Device/PLC Connection manual" information. Also, be sure to download the "Preface for Trademark Rights, List of Units Supported, How to Read Manuals and Documentation Conventions" PDF file. Furthermore, be sure to keep all manual-related data in a safe, easy-to-find location.

Siemens Connectable Devices

The following tables list the devices that can be connected and used with the GP.

■ PLCs

◆ 1:1 Connection, 1:n Connection

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
SIMATIC S5	90 95U 100U	CP 521 SI		SIEMENS S5 3964(R) Protocol	○	x
		CPU Direct Connection		SIEMENS S5 90-115 series		
	115U	CP524, CP525		SIEMENS S5 3964(R) Protocol		
		CPU Direct Connecton		SIEMEMS S5 90-115 series		
	135U 155U	CP524, CP525		SIEMENS S5 3964(R) Protocol		
		CPU Direct Connection		SIEMENS S5 135-155 series		
SIMATIC S7-200	CPU212, CPU214	CPU Direct Connection		SIEMENS S7-200PPI		
	CPU214, CPU215, CPU216, CPU221, CPU222, CPU224, CPU226	CPU Cirect (via MPI Port)		SIEMENS S7-200 via MPI		
SIMATIC S7-300	CPU312IFM, CPU313, CPU314, CPU314IFM, CPU315, CPU315-2DP, CPU316, CPU316-2DP, CPU318-2	CPU Direct (via MPI Port)		SIMATIC S7-300 / 400 via MPI		
	CPU313, CPU314, CPU315, CPU315-2DP	CP340	3964R via RK512	SIMATIC S7 via 3964 / RK512		
		CP341				
SIMATIC S7-400	CPU412-1, CPU412-2DP, CPU413-1, CPU413-2DP, CPU414-1, CPU414-2DP	CPU Direct (via MPI Port)		SIMATIC S7-300/400 via MPI		
	CPU413-2DP	CP441-2		SIMATIC S7 via 3964/RK512		

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
SIMATIC 505	545-1101, 545-1102, 545-1103, 545-1104, 545-1105, 545-1106, 555-1101, 555-1102, 555-1103, 555-1104, 555-1105, 555-1106	Link I/F on CPU unit		SIMATIC 545/555 CPU	○	X

◆ Profibus Communication

Series Name	CPU	Notes	Device type in Screen Editor
S7 300	S7 315-2-DP	Profibus unit is required.	PROFIBUS
S7 400	S7 413-2-DP		

The following table lists the GPs that can be connected and used with the Profibus-DP.

Series Name	Product Name	Unit
GP70 Series	GP-470 Series	GP-470E
	GP-570 Series	GP-570L
		GP-570S
		GP-570T
	GP-675 Series	GP-675S
		GP-675T
GP77R Series	GP-477R Series	GP-477RE
	GP-577R Series	GP-577RS
		GP-577RT
GP2000 Series	GP-2500 Series	GP-2500L
		GP-2500S
		GP-2500T
	GP-2501 Series	GP-2501L
		GP-2501S
		GP-2501T
	GP-2600 Series	GP-2600T
	GP-2601 Series	GP-2601T

*1 For GP2000 Series units, a bus conversion unit (PSL-CONV00) is required.

◆ Interbus Communication

<Direct I/O Mode>

Series Name	CPU	Link Unit	Device type in Screen Editor
S7-400	CPU413-2DP	Phoenix Contact IBSS7-400 DSC/I-T	INTERBUS SLAVE
Various PCs	—	Phoenix Contact IBS PC ISA SC/I-T	

<Packet Transfer Mode>

Series Name	CPU	Link Unit	Device type in Screen Editor
S7-400	CPU413-2DP	Phoenix Contact IBSS7-400 DSC/I-T	INTERBUS SLAVE

The following tables list the GPs that can be connected and used with Interbus.

Series Name	Product Name	Unit
GP70 Series	GP-470 Series	GP-470E
	GP-570 Series	GP-570S
		GP-570T
		GP-57JS
		GP-570VM
	GP-571 Series	GP-571T
	GP-675 Series	GP-675S
GP-675T		
GP77R Series	GP-477R Series	GP-477RE
	GP-577R Series	GP-577RS
		GP-577RT
GP2000 Series	GP-2500 Series	GP-2500L
		GP-2500S
		GP-2500T
	GP-2501 Series	GP-2501L
		GP-2501S
		GP-2501T
	GP-2600 Series	GP-2600T
	GP-2601 Series	GP-2601T

Interbus Slave Module
(GP070-IB41) *1

*1 When using GP2000 Series units, a bus conversion unit (PSL-CONV00) is required.

◆ **Ethernet Communication**

Manufacturer	Series Name	CPU	Link I/F	Notes	Device Type in Screen Editor
SIEMENS	S7-300	CPU312IFM CPU313 CPU314 CPU314IFM CPU315 CPU315-2DP CPU316 CPU316-2DP CPU318-2	CP 343-1 IT CP 343-1		Siemens S7-300/400 (ETHER)
	S7-400	CPU412-1 CPU412-2DP CPU413-1 CPU413-2DP CPU414-1 CPU414-2DP CPU414-3DP CPU416-1 CPU416-2DP CPU416-3DP CPU417-4	CP 443-1 IT CP 443-1		

The GP/GLC series applicable for Ethernet are listed below:

Series Name		Model	Support
GP2000 Series	GP-2300	GP-2300T	○
		GP-2300L	○
		GP-2300S	○
	GP-2400	GP-2400T	○
	GP-2500	GP-2500T	○
		GP-2500S	○
		GP-2500L	○
	GP-2501	GP-2501T	X
		GP-2501S	X
	GP-2600	GP-2600T	○
GP-2601	GP-2601T	X	
GLC2000 Series	GLC2000	GLC2400T	○
		GLC2300T	○
		GLC2300L	○
		GLC2500T	○
		GLC2600T	○
ST Series	ST403	○	