Pro-face

Digital Human Machine Interface

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.

Rockwell (Allen-Bradley) Connectable Devices

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

■ PLCs

◆ 1:1 Connection

Series Name	CPU	Link Unit	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
SLC 500	SLC-5/03 SLC-5/04	Link unit on CPU	Allen-Bradley SLC 500 series	○	x
PLC-5	All PLC-5 processors which connect to the link units shown on the right	1785-KE 1770-KF2 1785-KE/C	Allen-Bradley PLC-5 series		
	PLC-5/11 PLC-5/20 PLC-5/30 PLC-5/40 PLC-5/40L PLC-5/60 PLC-5/60L	CPU Direct Connection			
Control Logix5000	1756-L1 1756-L1M1 1756-L1M2 1756-L1M3 1756-L55M13 1756-L55M14 1756-L55M15	Link I/F on CPU unit	Allen Bradley Control Logix (DF1)		
MicroLogix 1000	1761-L16AWA 1761-L32AWA 1761-L20AWA-5A 1761-L10BWA 1761-L16BWA 1761-L20BWA-5A 1761-L32BWA 1761-L10BWB 1761-L16BWB 1761-L20BWB-5A 1761-L32BWB 1761-L16BBB 1761-L32BBB 1761-L32AAA	CPU Direct Connection	Allen Bradley SLC500 series		
		Advanced Interface Converter 1761-NET-AIC			
MicroLogix 1200	1762-L24AWA 1762-L24BWA 1762-L24BXB 1762-L40AWA 1762-L40BWA 1762-L40BXB	CPU Direct Connection			
		Advanced Interface Converter			
MicroLogix 1500	1764-LSP	CPU Direct Connection			
		Advanced Interface Converter 1761-NET-AIC			
Compact Logix 5000	1769-L20 1769-L30 1769-L31 1769-L32E 1769-L35E	Link I/F unit on CPU	Allen Bradley Control Logix (DF1)		

◆ n:1 (Multi-link) Connection

Series Name	CPU	Link I/F	Device type in Screen Editor	GP Series GLC2000 Series	GLC100 Series GLC300 Series
SLC500	SLC-5/03 SLC-5/04	Link I/F on CPU unit	Allen Bradley SLC500 Series	○	X
MicroLogix 1000	1761-L16AWA 1761-L32AWA 1761-L20AWA-5A 1761-L10BWA 1761-L16BWA 1761-L20BWA-5A 1761-L32BWA 1761-L10BWB 1761-L16BWB 1761-L20BWB-5A 1761-L32BWB 1761-L16BBB 1761-L32BBB 1761-L32AAA	Advanced Interface Converter (1761-NET-AIC)			
MicroLogix 1200	1762-L24AWA 1762-L24BWA 1762-L24BXB 1762-L40AWA 1762-L40BWA 1762-L40BXB				
MicroLogix 1500	1764-LSP				

◆ Ethernet Communication

Series Name	CPU	Link I/F	Comments	Device Type in Screen Editor	GP Series GLC2000 Series	GLC100 Series GLC300 Series
SLC500	SLC5/05	Ethernet I/F on CPU	<GP/GLC List1>	Allen Bradley SLC5/05 (ETHER)	○	X
Control Logix 5000	1756-L1 1756-L1M1 1756-L1M2 1756-L1M3 1756-L55M13 1756-L55M14 1756-L55M16	1756-ENET 1756-ENBT	<GP/GLC List2>	AB Control Logix (ETHER/IP)		
Compact Logix	1769-L35E	Ethernet I/F on CPU	<GP/GLC List 2>			

The following table lists the GPs units that can be connected and used with Ethernet.

<GP/GLC List 1>

Series Name		Product Name	Optional Ethernet I/F Unit	Built-in Ethernet Port
GP77R Series	GP-377R Series	GP-377RT	❍ *1 *2	x
	GP-477R Series	GP-477RE	❍ *2	x
	GP-577R Series	GP-577RS	❍ *2	x
		GP-577RT	❍ *2	x
GP2000 Series	GP-2300 Series	GP-2300L	x	❍
		GP-2300S	x	❍
		GP-2300T	x	❍
	GP-2400 Series	GP-2400T	x	❍
	GP-2500 Series	GP-2500L	❍ *3 *4	❍
		GP-2500S	❍ *3 *4	❍
		GP-2500T	❍ *3 *4	❍
	GP-2501 Series	GP-2501L	❍ *2 *3	x
		GP-2501S	❍ *2 *3	x
		GP-2501T	❍ *2 *3	x
	GP-2600 Series	GP-2600T	❍ *3 *4	❍
	GP-2601 Series	GP-2601T	❍ *2 *3	x
GLC2000 Series	GLC-2300 Series	GLC-2300L	x	❍
		GLC-2300T	x	❍
	GLC-2400 Series	GLC-2400T	x	❍
	GLC-2500 Series	GLC-2500T	❍ *3 *4	❍
	GLC-2600 Series	GLC-2600T	❍ *3 *4	❍
ST Series		ST403	x	❍

**1 Only the Multi Unit can be used.*

**2 The 2-Way Driver (Pro-Server, GP-Web and others) cannot be used.*

**3 When using the optional Ethernet I/F unit, a bus conversion unit (PSL-CONV000) is required.*

**4 Using the optional Ethernet I/F Unit allows you to set up separate Class and Net No.s for 2-Way Driver applications (Pro-Server, GP-Web and others) and the PLC. When doing this, data transfer with the PLC is performed through the optional Ethernet I/F Unit.*

<GP/GLC List 2>

Series Name		Product Name
GP2000 Series	GP-2300 Series	GP-2300L
		GP-2300S
		GP-2300T
	GP-2400 Series	GP-2400T
	GP-2500 Series	GP-2500L
		GP-2500S
		GP-2500T
	GP-2600 Series	GP-2600T
GLC2000 Series	GLC-2300 Series	GLC-2300L
		GLC-2300T
	GLC-2400 Series	GLC-2400T
	GLC-2500 Series	GLC-2500T
	GLC-2600 Series	GLC-2600T
ST Series		ST403

Note: **• Optional Ethernet I/F Unit cannot be used.**

◆ DeviceNet Communication

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor
SLC500	SLC-5/04	1747-SDN	Device Net Unit (GP070-DN41) is required.	Device Net Slave I/O
PLC-5	PLC-5/20	1771-SDN		
Control Logix	1756-L1 1756-L1M1 1756-L1M2 1756-L1M3	1756-DNB		
Micro Logix 1500	1764-LSP 1764-LRP	1769-SDN		

The following table lists the GPs units that can be connected and used with DeviceNet.

Series Name		Product Name	Unit
GP70 Series	GP-470 Series	GP-470E	DeviceNet Unit (GP070-DN41) *1
	GP-570 Series	GP-570S	
		GP-570T	
		GP-57JS	
		GP-570VM	
	GP-571 Series	GP-571T	
	GP-675 Series	GP-675S	
		GP-675T	
	GP-870 Series	GP-870VM	
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-2501S	
		GP-2501T	
	GP-2600 Series	GP-2600T	
	GP-2601 Series	GP-2601T	
GLC2000 Series	GLC2500 Series	GLC2500T	
	GLC2600 Series	GLC2600T	

**1 When using GP2000/GLC2000 series units, a bus conversion unit (PSL-CONV00) is required.*

■ DH485 Communication, Data Highway Plus Communication, Remote I/O Communication

Series	CPU	Link I/F	Comments	Device type in Screen Editor
MicroLogix1000	1761-L16AWA 1761-L32AWA 1761-L20AWA-5A 1761-L10BWA 1761-L16BWA 1761-L20BWA-5A 1761-L32BWA 1761-L10BWB 1761-L16BWB 1761-L20BWB-5A 1761-L32BWB 1761-L16BBB 1761-L32BBB 1761-L32AAA	Advanced Interface Converter 1761-NET-AIC		AB SLC500 DH485
MicroLogix1200	1762-L24AWA 1762-L24BWA 1762-L24BXB 1762-L40AWA 1762-L40BWA 1762-L40BXB			
MicroLogix1500	1764-LSP			
SLC 500	SLC-5/01 SLC-5/02 SLC-5/03 SLC-5/04	DH485 Port on CPU	It is possible to directly connect the PLC having DH485 port.	
		1747-AIC Link coupler (Allen-Bradley's)	Connection to the DH485 network can be made by using the linkcoupler shown at left.	
	SLC-5/04	DH Plus port on CPU		AB Data Highway Plus
PLC5	PLC5/20	DH Plus port on CPU		AB Data Highway Plus
	PLC5	REMOTE I/O Channel on CPU		AB Remote IO