

SIMATIC ET 200 distributed I/O

ET 200SP

Interface modules without CPU

IM 155-6

Overview



- Interface module for linking the ET 200SP to PROFINET or PROFIBUS
- Handles all data exchange with the controller
- BusAdapter (BA) for individual PROFINET connection
- Integrated 2-port switch for line configuration
- Depending on the selected interface module
 - Up to a maximum of 64 I/O modules per station
 - Replacement of I/O modules during operation
- Operation with gaps (non-equipped BaseUnits) possible
- Replacement of an I/O module possible during operation (hot swapping)
- Load group formation without power module

Technical specifications

	6ES7155-6AA00-0BN0 IM 155-6 PN ST with BA 2xRJ45 and server module	6ES7155-6AU00-0BN0 IM 155-6 PN ST with server module	6ES7155-6AU00-0CN0 IM 155-6 PN HF with server module	6ES7155-6BA00-0CN0 IM155-6DP HF with PROFIBUS connector and server module
General information				
Product function				
• I&M data	Yes	Yes	Yes; I&M0 to I&M4	Yes; I&M0 to I&M3
Engineering with				
• STEP 7 TIA Portal can be configured/integrated as of version	V11 SP2 with HSP0024 / -	V12 / V12		
• STEP 7 can be configured/integrated as of version	V5.5 SP3 / -	V5.5 SP3 / -	V5.5 SP3 / -	V5.5 SP3 / -
• PROFIBUS as of GSD version/GSD revision				GSD as of Revision 5
• PROFINET as of GSD version/GSD revision	V2.3 / -	V1.0 / V2.23	V2.3 / -	
Supply voltage				
Type of supply voltage		24 V DC	DC	DC
Rated value (DC)	24 V	24 V	24 V	24 V
Reverse polarity protection	Yes	Yes	Yes	Yes
Mains buffering				
• Mains/voltage failure stored energy time	5 ms	5 ms	5 ms	5 ms
Hardware configuration				
Rack				
• maximum	32	32	64	
Interfaces				
Number of PROFINET interfaces	1	1	1	
Number of PROFIBUS interfaces				1

Ordering data	Article No.	Article No.	
Interface module Standard			
<ul style="list-style-type: none"> IM 155-6PN ST, with server module and installed BusAdapter BA 2xRJ45 IM 155-6PN ST, with server module, without BusAdapter 	<p>6ES7155-6AA00-0BN0</p> <p>6ES7155-6AU00-0BN0</p>	<p>Relay module RQ NO 4x120 V DC - 230 V AC/5 A Standard, normally-open, BU type B0, color code CC00</p> <p>Signal relay module RQ CO 4x24 V UC/2 A Standard, changeover contact, BU type A0, color code CC00</p> <p>Fail-safe digital output module F-DQ 4x24 V DC High Feature, BU type A0, color code CC01, SIL3/Cat.4/PLe</p> <p>Fail-safe digital F output module relay 1 F-RQ, BU type F0, relay output (2 NO contacts), total output current 5 A, load voltages 24 V DC and 24...230 V AC; can be used up to SIL3 /Category 4/PLe if controlled via F-DQ</p>	<p>6ES7132-6HD00-0BB0</p> <p>6ES7132-6GD50-0BA0</p> <p>6ES7136-6DB00-0CA0</p> <p>6ES7136-6RA00-0BF0</p>
Interface module High Feature			
<ul style="list-style-type: none"> IM 155-6DP HF, with server module, with multi-hot-swap, incl. PROFIBUS connector IM 155-6PN HF, incl. server module, without BusAdapter 	<p>6ES7155-6BA00-0CN0</p> <p>6ES7155-6AU00-0CN0</p>		
Accessories			
Digital input modules			
Digital input module DI 8x24 V DC Standard, BU type A0, color code CC01	6ES7131-6BF00-0BA0		
Digital input module DI 16x24 V DC Standard, BU type A0, color code CC00	6ES7131-6BH00-0BA0		
Digital input module DI 8x24 V DC High Feature, BU type A0, color code CC01, channel-specific diagnostics, isochronous mode, shared input (MSI)	6ES7131-6BF00-0CA0		
Digital input module DI 8x24 V DC Source Input, Basic, BU type A0, color code CC02	6ES7131-6BF60-0AA0		
Digital input module DI 8xNAMUR High Feature, BU type A0, color code CC01	6ES7131-6TF00-0CA0		
Digital input module DI 4x120 V AC-230 V AC Standard, BU type B1, color code CC41	6ES7131-6FD00-0BB1		
Fail-safe digital input module F-DI 8x24 V DC High Feature, BU type A0, color code CC01, SIL3/Cat.4/PLe	6ES7136-6BA00-0CA0		
Digital output modules			
Digital output module DQ 4x24 V DC/2 A Standard, BU type A0, color code CC02	6ES7132-6BD20-0BA0		
Digital output module DQ 4x24 V DC/2 A High Feature, BU type A0, color code CC02, channel-precise diagnostics, isochronous mode, shared output (MSO)	6ES7132-6BD20-0CA0		
Digital output module DQ 4x24 V AC-230 V AC/2 A Standard for BU type B1, color code CC41	6ES7132-6FD00-0BB1		
Digital output module DQ 8x24 V DC/0.5 A Standard, BU type A0, color code CC02	6ES7132-6BF00-0BA0		
Digital output module DQ 8x24 V DC/0.5 A High Feature, BU type A0, color code CC02	6ES7132-6BF00-0CA0		
Digital output module DQ 8x24 V DC/0.5 A Sink output, Basic, BU type A0, color code CC01	6ES7132-6BF60-0AA0		
Digital output module DQ 16x24 V DC/0.5 A Standard, BU type A0, color code CC00	6ES7132-6BH00-0BA0		
		Analog input modules	
		Analog input module AI 4xU/I 2-wire Standard, BU type A0 or A1, color code CC03, 16 bit, ± 0.3%	6ES7134-6HD00-0BA1
		Analog input module AI 4xI 2-/4-wire Standard, BU type A0 or A1, color code CC03, 16 bit, ± 0.3%	6ES7134-6GD00-0BA1
		Analog input module AI 4xRTD/TC 2-, 3-, 4-wire High Feature, BU type A0 or A1, color code CC00, 16 bit, ± 0.1%, scalable measuring range	6ES7134-6JD00-0CA1
		Analog input module AI 2xU/I 2-/4-wire High Speed, BU type A0 or A1, color code CC00, 16 bit, ± 0.3%, isochronous mode above 250 µs, oversampling above 50 µs	6ES7134-6HB00-0DA1
		Analog input module AI 8xRTD/TC 2-wire High Feature, BU type A0 or A1, color code CC00, 16 bit, ± 0.1%, scalable measuring range	6ES7134-6JF00-0CA1
		Analog input module AI 2xU/I 2-/4-wire High Feature, BU type A0 or A1, color code CC05, 16 bit, ± 0.1%, independent channel isolation, isochronous mode above 1 ms	6ES7134-6HB00-0CA1
		Analog input module AI Energy Meter Standard, BU type D0, color code CC00	6ES7134-6PA00-0BD0
		Analog output modules	
		Analog output module AQ 4xU/I Standard, BU type A0 or A1, color code CC00, 16 bit, ± 0.3%	6ES7135-6HD00-0BA1
		Analog output module AQ 2xU/I High Speed, BU type A0 or A1, color code CC00, 16 bit, ± 0.3%	6ES7135-6HB00-0DA1
		Analog output module AQ 2xU/I High Feature, BU type A0 or A1, color code CC00, 16 bit, ± 0.1%	6ES7135-6HB00-0CA1