## **SIEMENS**

## **Data sheet**

## 6AG1155-6AA02-7BN0

SIPLUS ET 200SP IM155-6PN ST / BA based on 6ES7155-6AA02-0BN0 with conformal coating, -40...+70 °C, PROFINET interface module IM 155-6 PN ST, max. 32 I/O modules, and 16 ET 200AL modules, multi hot swap, optional PN strain relief, bundle consists of: interface module (6AG1155-6AU02-7BN0), server module (6AG1193-6PA00-7AA0), BusAdapter BA 2xRJ45 (6AG1193-6AR00-7AA0)

General information	TAAU)	
Product type designation	IM 155-6 PN ST incl. BA 2x RJ45 and server module	
Firmware version	155 C. IT OT IIIO. D. LEATO TO GIRL SOTTO I IIIOGGIO	
FW update possible	Yes	
Vendor identification (VendorID)	002AH	
Device identifier (DeviceID)	0313H	
Manufacturer ID according to ODVA (VendorID)	04E3H	
Device ID according to ODVA (Product code)	0FA2H	
based on	6ES7155-6AA02-0BN0	
Product function	<u>0L07103-074402-0B140</u>	
• I&M data	Yes; I&M0 to I&M4	
Module swapping during operation (hot swapping)	Yes; Multi-hot swapping	
Isochronous mode	No	
Engineering with	NO	
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275	
Configuration control	See entry 10. 109740273	
via dataset	Yes	
	165	
Supply voltage	24.7/	
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Short-circuit protection	Yes	
Mains buffering		
Mains/voltage failure stored energy time	10 ms	
Input current		
Current consumption (rated value)	350 mA	
Current consumption, max.	450 mA	
Inrush current, max.	1 A	
I <sup>2</sup> t	0.05 A <sup>2</sup> ·s	
Power loss		
Power loss, typ.	1.8 W	
Address area		
Address space per module		
Address space per module, max.	288 byte; For input and output data respectively	
Address space per station		
Address space per station, max.	1 440 byte	
Hardware configuration		
Rack		
<ul> <li>Quantity of operable ET 200SP modules, max.</li> </ul>	32	
<ul> <li>Quantity of operable ET 200AL modules, max.</li> </ul>	16	
Submodules		
<ul> <li>Number of submodules per station, max.</li> </ul>	256	
Interfaces		
Number of PROFINET interfaces	1; 2 ports (switch)	
1. Interface		
Interface types		
RJ 45 (Ethernet)	Yes; with BusAdapter	
• KJ 45 (Etnernet)	Yes; WITH BUSAGAPTER	

Number of ports	2; with BusAdapter		
• integrated switch	Yes		
BusAdapter (PROFINET)	Yes; BA 2x RJ45, BA 2x FC, BA 2x M12		
Protocols			
PROFINET IO Device	Yes		
Open IE communication	Yes		
Media redundancy	Yes; PROFINET MRP client		
PROFINET IO Device			
Services			
— IRT	Yes; 250 µs to 4 ms in 125 µs frame		
— PROFlenergy	Yes		
<ul><li>— Prioritized startup</li></ul>	Yes		
— Shared device	Yes		
Number of IO Controllers with shared device, max.	4		
Interface types			
RJ 45 (Ethernet)			
<ul> <li>Transmission procedure</li> </ul>	PROFINET with 100 Mbit/s full duplex (100BASE-TX)		
• 100 Mbps	Yes		
<ul> <li>Autonegotiation</li> </ul>	Yes		
<ul> <li>Autocrossing</li> </ul>	Yes		
Protocols			
Supports protocol for PROFINET IO	Yes		
PROFIsafe	Yes		
PROFIBUS	No		
EtherNet/IP	No		
Modbus TCP	No		
Redundancy mode			
PROFINET system redundancy (S2)	No		
Media redundancy			
— MRP	Yes		
— MRPD	No		
Open IE communication	INC		
• TCP/IP	Yes		
• SNMP	Yes		
• LLDP	Yes		
Interrupts/diagnostics/status information	Tes		
	V		
Status indicator	Yes		
Alarms	Yes		
Diagnostics function	Yes		
Diagnostics indication LED			
• RUN LED	Yes; green LED		
• ERROR LED	Yes; red LED		
MAINT LED	Yes; Yellow LED		
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green PWR LED		
Connection display LINK TX/RX	Yes; 2x green link LEDs on BusAdapter		
Potential separation			
between backplane bus and electronics	No		
between PROFINET and all other circuits	Yes; 1500 V AC (type test)		
between supply and all other circuits	No		
Permissible potential difference			
between different circuits	Safety extra low voltage SELV		
Isolation			
Isolation tested with	707 V DC (type test)		
Standards, approvals, certificates			
Network loading class	3		
product functions / security / header			
PROFINET Security Class	1		
signed firmware update	Yes		
safely removing data	Yes		
data integrity	Yes		
data integrity	100		

mbient temperature during operation			
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)		
horizontal installation, max.	70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155)		
vertical installation, min.	-40 °C; = Tmin		
vertical installation, max.	50 °C; = Tmax		
titude during operation relating to sea level			
Installation altitude above sea level, max.	5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200SP systemanual		
elative humidity	manuai		
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation		
esistance			
Coolants and lubricants			
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air		
Use in stationary industrial systems			
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna) Class 3B3 on request		
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severit degree 3); $^{\star}$		
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *		
<ul> <li>Against mechanical environmental conditions acc. to EN 60721-3-3</li> </ul>	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0//6AG1193-6AB00-0AA0)		
Use on ships/at sea			
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)		
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severif degree 3); $^{\star}$		
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *		
<ul> <li>Against mechanical environmental conditions acc. to EN 60721-3-6</li> </ul>	Yes; class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00AA0/6AG1193-6AB00-0AA0)		
Usage in industrial process technology			
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)		
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		
Remark			
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!		
onformal coating			
Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability		
Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection		
Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life		
Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A	Yes; Conformal coating, Class A		
nection method			
T-Connection			
• via BU/BA Send	Yes; + 16 ET 200AL modules		
chanics/material			
train relief	Yes; Optional		
nensions			
fidth	50 mm		
eight	117 mm		
epth	74 mm		
ights			
eight, approx.	125 g; without BusAdapter		
ssifications			

eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604

Approvals / Certificates

General Product Approval

Marine / Shipping

**Miscellaneous** 

Manufacturer Declaration





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