

SIEMENS

Product data sheet

6ES7155-6AU00-0BN0


SIMATIC ET 200SP,
PROFINET INTERFACE MODULE IM155-6PN
STANDARD,
MAX. 32 PERIPHERY MODULES,
INCL. SERVERMODUL

General information

Device identifier (DeviceID) 0313h

Supply voltage

Rated value (DC) 24 V ; Permissible range: 19.2 to 28.8 V

Reverse polarity protection Yes

Mains buffering

Mains buffering, min. 5 ms

Input current

from supply voltage 1L+, max. 450 mA ; With input voltage 1L+ = 24 V and current output at backplane bus = 2000 mA

Power losses

Power loss, typ. 1.9 W

Address area

Addressing volume

Outputs 256 byte

Inputs 256 byte

Interfaces	
Supports protocol for PROFINET IO	
Automatic detection of transmission speed	Yes
Transmission rate, max.	100 Mbit/s
Services	Ping; arp; LLDP; network diagnostics (SNMP) / MIB-2, reset SNMP parameters to factory settings; prioritized startup; media redundancy MRP; shared device
RJ45	Yes ; 2x RJ45
1st interface	
Type of interface	PROFINET
Physics	RJ45
Isolated	Yes
Integrated switch	Yes
Number of ports	2
Autonegotiation	Yes
Autocrossing	Yes
Functionality	
PROFINET IO Device	Yes
2nd interface	
Functionality	
PROFINET IO Device	Yes
PROFINET IO Controller	
Address area	
User data per address area, max.	256 byte
PROFINET CBA	
acyclic transmission	Yes
Cyclic transmission	Yes
Protocols	
Supports protocol for PROFINET IO	Yes
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic messages	
Diagnostic functions	Yes

Galvanic isolation	
between supply voltage and electronics	Yes
between Ethernet and electronics	Yes
Isolation	
Isolation checked with	707 V DC between supply voltage and electronics 1500 V AC between Ethernet and electronics
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	Yes
Degree of sharpness	3
Test voltage at air discharge	8 kV
Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
on the supply lines acc. to IEC 61000-4-4	Yes
Interference immunity on signal lines acc. to IEC 61000-4-4	Yes
Interference immunity on supply cables	
Degree of sharpness	3
Test voltage	2 kV
Interference immunity on signal cables >30m	
Degree of sharpness	3
Test voltage	2 kV
Interference immunity on signal cables < 30m	
Degree of sharpness	3
Test voltage	1 kV
Surge immunity	
on the supply lines acc. to IEC 61000-4-5	Yes
Asymmetric interference	
Degree of sharpness	3
Test voltage on supply cables	2 kV
Test voltage on signal cables >30m	2 kV
Immunity against high-frequency electromagnetic fields	

Interference immunity against high-frequency radiation acc. to IEC 61000-4-3	Yes
Degree of sharpness	3
Frequency range of the HF irradiation	80 to 1000 MHz and 1.4 to 2 GHz with 10 Vm; 2.0 GHz to 2.7 GHz with 1 Vm
Electrical field strength at 80% amplitude modulation with 1kHz in the range of 80 MHz to 1000 MHz	10 V/m
Immunity against conducted interference induced by high-frequency fields	
Interference immunity against high frequency current feed acc. to IEC 61000-4-6	Yes
Interference immunity against high-frequency radiation acc. to IEC 61000-4-6	Yes
Degree of sharpness	3
Climatic and mechanical conditions for storage and transport	
Conditions of use in storage and transport	
Compliance with requirements for storage and transport conditions according to IEC 61131-2	Yes
Climatic conditions for storage and transport	
Free fall	
Drop height, max. (in packaging)	1 m
Temperature	
Permissible temperature range	-40 °C to +70 °C
Min.	-40 °C
max.	70 °C
Air pressure acc. to IEC 60068-2-13	
Min.	660 hPa
max.	1080 hPa
Min.	-1000 m
max.	3500 m
Mechanical conditions for storage and transport	
Constant amplitude at 5 Hz to 9 Hz, max.	3.5 mm
Constant acceleration at 9 Hz to 150 Hz, max	9.8 m/s ²
Shock (acc. to IEC 60068-2-29)	

Acceleration at a duration of 6 ms per shock (tested with 1000 shocks)	250 m/s ²
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
Min.	0 °C
max.	60 °C
Permissible temperature change	10 °C/h
Air pressure acc. to IEC 60068-2-13	
Min.	795 hPa
max.	1080 hPa
Min.	-1000 m
max.	2000 m
Relative humidity	
Relative humidity at 25 °C, max. (without condensation)	95 %
Pollutant concentrations	
SO ₂ at RH < 60% without condensation	0.00005 % ; SO ₂ : < 0.5 ppm; RH < 60% condensation-free
H ₂ S at RH < 60% without condensation	0.00001 % ; H ₂ S: < 0.1 ppm; RH < 60% condensation-free
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Weight	
Weight, approx.	150 g
Status	May 26, 2012