# **SIEMENS**

## **Data sheet**

## 6AG1443-1GX30-4XE0

### product type designation



#### **SIPLUS NET CP 443-1 ADVANCED**

SIPLUS NET CP 443-1 Advanced based on 6GK7443-1GX30-0XE0 with conformal coating, 0...+60 °C, 1x 10/100/1000 Mbps; 4x 10/100 Mbps (IE switch); RJ 45 ports; ISO; TCP; UDP; PROFINET IO controller S7 communication; open communication (send/ receive); S7 routing; IP configuration via DHCP/block; IP access control list; time--of-day synchronization; extended Web diagnostics; fast start up; support for PROFlenergy; IP routing; FTP; web server;

Figure similar

1 00 1100 100	
transfer rate	
transfer rate	
at the 1st interface	10 1000 Mbit/s
at the 2nd interface	10 100 Mbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	5
number of electrical connections	
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	1
at the 2nd interface / according to Industrial Ethernet	4
type of electrical connection	
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	RJ45 port
at the 2nd interface / according to Industrial Ethernet	RJ45 port
design of the removable storage	
• C-PLUG	Yes
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage / 1 / from backplane bus	5 V
relative symmetrical tolerance / at DC	
• at 5 V	5 %
consumed current	
• from backplane bus / at DC / at 5 V / typical	1.8 A
power loss [W]	7.25 W
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
relative humidity	
with condensation / according to IEC 60068-2-38 / maximum	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances	
<ul> <li>conformity according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
<ul> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)

resistance to chemically active substances	
<ul> <li>conformity according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52
	(Severity 3). The supplied plug covers must remain in place on the unused
and formation and an inches to EN 00704.0.0	interfaces during operation.
conformity according to EN 60721-3-6	Yes
resistance to mechanically active substances	
<ul> <li>conformity according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / according to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / according to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20
design, dimensions and weights	
	Compact module C7 400 six also width
module format	Compact module S7-400 single width
width	25 mm
height	290 mm
depth	210 mm
net weight	0.7 kg
product features, product functions, product components / gen	neral
number of units	
per CPU / maximum	14
• note	max. 4 as PN IO ctrl.
performance data / open communication	max. 4 as i Wio cui.
	04
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	64
data volume	
as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
<ul> <li>as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	2 Kibyte
number of possible connections / for open communication	
by means of T blocks / maximum	64
data volume	
<ul> <li>as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum</li> </ul>	1452 byte
performance data / S7 communication	
number of possible connections / for S7 communication	
maximum	128; when using several CPUs
with PG connections / maximum	2
	-
performance data / multi-protocol mode	400
number of active connections / with multi-protocol mode	128
performance data / IT functions	
number of possible connections	
<ul><li>as client / by means of FTP / maximum</li></ul>	20
<ul><li>as server / by means of FTP / maximum</li></ul>	10
number of possible connections	
as server / by means of HTTP / maximum	4
as email client / maximum	1
data volume / as user data for email / maximum	8 Kibyte
storage capacity / of the user memory	
	20 Mibuto
as flash memory file system	30 Mibyte

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• as RAM	16 Mibyte
additionally buffered as RAM via central backup battery      additionally buffered as RAM via central backup battery	512 Kibyte
number of possible write cycles / of the flash memory cells	100000
performance data / PROFINET communication / as PN IO contro	
number of PN IO devices / on PROFINET IO controller /	Yes 128
operable / total number of PN IO IRT devices / on PROFINET IO controller / operable	64
number of external PN IO lines / with PROFINET / per rack	4
data volume	
<ul> <li>as user data for input variables / as PROFINET IO controller / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data for output variables / as PROFINET IO controller / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data for input variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul> <li>as user data for output variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul> <li>as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum	240 byte
performance data / PROFINET CBA	
number of remote connection partners / with PROFINET CBA	64
number of connections / with PROFINET CBA / total	600
data volume  • as user data for digital inputs / with PROFINET CBA / maximum	8 Kibyte
as user data for digital outputs / with PROFINET CBA / maximum	8 Kibyte
<ul> <li>as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum</li> </ul>	250 byte
as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum	2400 byte
performance data / PROFINET CBA / remote interconnection / w	ith acyclic transfer
update time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA	100 ms
number of remote connections to input variables / in the case of acyclic transmission / with PROFINET CBA / maximum	150
number of remote connections to output variables / in the case of acyclic transmission / with PROFINET CBA / maximum	150
data volume	0 Kibuta
<ul> <li>as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	8 Kibyte
<ul> <li>as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	8 Kibyte
performance data / PROFINET CBA / remote interconnection / w	ith cyclic transfer
update time / of the remote interconnections / with cyclical transfer / with PROFINET CBA	10 ms
number of remote connections to input variables / with PROFINET CBA / with cyclic transfer / maximum	250
number of remote connections to output variables / with cyclical transfer / with PROFINET CBA / maximum	250
data volume	
<ul> <li>as user data for remote interconnections with input variables / with cyclical transfer / with PROFINET CBA / maximum</li> </ul>	2000 byte
<ul> <li>as user data for remote interconnections with output variables / with cyclical transfer / with PROFINET CBA / maximum</li> </ul>	2000 byte
performance data / PROFINET CBA / HMI variables via PROFINE	T / acyclic
number of connectable HMI stations / for HMI variables / in the case of acyclic transmission / with PROFINET CBA	3
update time / of the HMI variables / in the case of acyclic	500 ms

transmission / with PROFINET CBA	
number of HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	200
data volume / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
performance data / PROFINET CBA / device-internal interconne	ctions
number of internal connections / with PROFINET CBA / maximum	300
data volume / of the internal connections / with PROFINET CBA / maximum	2400 byte
performance data / PROFINET CBA / interconnections to consta	nnts
number of connections with constants / with PROFINET CBA / maximum	500
data volume / as user data for interconnections with constants / with PROFINET CBA / maximum	4000 byte
performance data / PROFINET CBA / PROFIBUS proxy functions	ality
product function / with PROFINET CBA / PROFIBUS proxy functionality	No
performance data / telecontrol	
protocol / is supported	
• TCP/IP	Yes
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
configuration software	
• required	STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA Portal) or higher
for PROFINET CBA / required	SIMATIC iMap V3.0 SP1 and higher
product functions / diagnostics	
	Voc
product function / web-based diagnostics	Yes
product function / web-based diagnostics product functions / switch	162
	Yes
product functions / switch	
product functions / switch product feature / switch	
product functions / switch product feature / switch product function	Yes
product functions / switch product feature / switch product function • switch-managed • with IRT / PROFINET IO switch • configuration with STEP 7	Yes
product functions / switch product feature / switch product function • switch-managed • with IRT / PROFINET IO switch	Yes No Yes
product functions / switch product feature / switch product function • switch-managed • with IRT / PROFINET IO switch • configuration with STEP 7	Yes No Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy	Yes No Yes Yes Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager	Yes No Yes Yes Yes Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)	Yes No Yes Yes Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security	Yes No Yes Yes Yes Yes Yes Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version	Yes No Yes Yes Yes Yes Yes Yes Yes Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection	Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection	Yes No Yes Yes Yes  Yes Yes  Yes Yes AES-256, AES-192, AES-128, 3DES-168, DES-56
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection	Yes  No Yes Yes  Yes  Yes  Yes  Yes  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection	Yes  No Yes Yes  Yes  Yes  Yes  Yes  Yes  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates  MD5, SHA-1
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection	Yes  No Yes Yes  Yes  Yes  Yes  Yes  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Stateful inspection  IPSec  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates  MD5, SHA-1  32
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Stateful inspection  IPSec  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates  MD5, SHA-1  32  Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Stateful inspection  IPSec  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates  MD5, SHA-1  32  Yes  Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based  • ACL - IP-based for PLC/routing	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Stateful inspection  IPSec  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates  MD5, SHA-1  32  Yes  Yes  Yes  Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based  • ACL - IP-based for PLC/routing  • switch-off of non-required services	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Stateful inspection  IPSec  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates  MD5, SHA-1  32  Yes  Yes  Yes  Yes  Yes
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product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based  • ACL - IP-based for PLC/routing  • switch-off of non-required services  • blocking of communication via physical ports  • log file for unauthorized access	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Stateful inspection  IPSec  AES-256, AES-192, AES-128, 3DES-168, DES-56  Preshared key (PSK), X.509v3 certificates  MD5, SHA-1  32  Yes  Yes  Yes  Yes  Yes
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based  • ACL - IP-based for PLC/routing  • switch-off of non-required services  • blocking of communication via physical ports  • log file for unauthorized access  product functions / time	Yes Yes Yes Yes Yes Yes Yes  Yes  Stateful inspection IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32  Yes Yes Yes Yes Yes Yes Yes Yes Yes No
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based  • ACL - IP-based for PLC/routing  • switch-off of non-required services  • blocking of communication via physical ports  • log file for unauthorized access  product functions / time  product function / SICLOCK support	Yes Yes Yes Yes Yes Yes Stateful inspection IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32 Yes
product functions / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product functions / redundancy  product functions / redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based  • ACL - IP-based for PLC/routing  • switch-off of non-required services  • blocking of communication via physical ports  • log file for unauthorized access  product function / SICLOCK support  product function / pass on time synchronization	Yes Yes Yes Yes Yes Yes Yes  Yes Yes  Stateful inspection IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32  Yes Yes Yes Yes Yes Yes Yes Yes Yes No
product functions / switch  product feature / switch  product function  • switch-managed  • with IRT / PROFINET IO switch  • configuration with STEP 7  product functions / redundancy  product function  • ring redundancy  • redundancy manager  protocol / is supported / Media Redundancy Protocol (MRP)  product functions / security  firewall version  product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication procedure / with VPN connection  type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • ACL - IP-based  • ACL - IP-based for PLC/routing  • switch-off of non-required services  • blocking of communication via physical ports  • log file for unauthorized access  product functions / time  product function / SICLOCK support	Yes Yes Yes Yes Yes Yes Stateful inspection IPSec AES-256, AES-192, AES-128, 3DES-168, DES-56 Preshared key (PSK), X.509v3 certificates MD5, SHA-1 32 Yes

standards, specifications, approvals	
reference code	
• according to IEC 81346-2:2019	KEC
further information / internet links	
internet link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud
<ul><li>to website: Industrial communication</li></ul>	https://www.siemens.com/simatic-net
<ul><li>to web page: SiePortal</li></ul>	https://sieportal.siemens.com/
<ul><li>to website: Image database</li></ul>	https://www.automation.siemens.com/bilddb
<ul><li>to website: CAx-Download-Manager</li></ul>	https://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
security information	
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Approvals / Certificates  General Product Approval	EMV
Miscellaneous Manufactu	urer Declara- ion  KC  RCM

For use in hazardous locations

CCC-Ex





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