	CP443-1	CP443-1	CP443-1	CP443-1	CP443-1 IT	CP443-1 Advanced	CP443-1 Advanced	CP443-1 Advanced	CP443-1 Advanced	CP443-1 RNA	CP443-1 RNA
Article number	6GK7443-1EX10-0XE0	6GK7443-1EX11-0XE0	6GK7443-1EX20-0XE0	6GK7443-1EX30-0XE0	6GK7443-1GX11-0XE0	6GK7443-1EX40-0XE0	6GK7443-1EX41-0XE0	6GK7443-1GX20-0XE0	6GK7443-1GX30-0XE0	6GK7443-1RX00-0XE0	6GK7443-1RX00-0XE0
Services											
ISO transport protocol	X	X	X	X	X	X	X	X	X	X	–
open communication by means of the blocks FC5/FC50 "AG_SEND/AG_LSEND" and FC6/FC60 "AG_RECV/AG_LRECV"	X	X	X	X	X	X	X	X	X	X	–
open communication by means of the blocks FC53 "AG_SSEND" and FC63 "AG_SRECV"[8]	–	–	X	X	–	–	–	X	X	X	–
open communication by means of T blocks[5]	–	–	–	–	–	–	–	–	–	–	–
open communication by means of Fetch/Write (passsive)	X	X	X	X	X	X	X	X	X	X	–
Lock/Unlock for Fetch/Write	X	X	X	X	X	X	X	X	X	X	–
Diagnostics with AG_CNTRL	–	–	X	X	–	X	X	X	X	X	–
ISO-on-TCP protocol	X	X	X	X	X	X	X	X	X	X	–
open communication by means of the blocks FC5/FC50 "AG_SEND/AG_LSEND" and FC6/FC60 "AG_RECV/AG_LRECV"	X	X	X	X	X	X	X	X	X	X	–
open communication by means of the blocks FC53 "AG_SSEND" and FC63 "AG_SRECV"[8]	–	–	X	X	–	–	–	X	X	X	–
open communication by means of T blocks[5]	-	-	X	X	–	X	X	X	X	X	–
open communication by means of Fetch/Write (passsive)	X	X	X	X	X	X	X	X	X	X	–
Lock/Unlock for Fetch/Write	X	X	X	X	X	X	X	X	X	X	–
Diagnostics with AG_CNTRL	–	–	X	X	–	X	X	X	X	X	–
TCP protocol	X	X	X	X	X	X		X	X	X	X
open communication by means of the blocks FC5/FC50 "AG_SEND/AG_LSEND" and FC6/FC60 "AG_RECV/AG_LRECV"	X	X	X	X	X	X	X	X	X	X	–
open communication by means of the blocks FC53 "AG_SSEND" and FC63 "AG_SRECV"[8]	–	–	X	X	–	–	–	X	X	X	–
open communication by means of T blocks[5]	–	–	–	–	–	–	–	–	–	–	–
open communication by means of Fetch/Write (passsive)	X	X	X	X	X	X	X	X	X	X	–
Lock/Unlock for Fetch/Write	X	X	X	X	X	X	X	X	X	X	–
Diagnostics with AG_CNTRL	–	–	X	X	–	X	X	X	X	X	–
Usable as OPC UA server using projection	–	–	–	–	–	–	–	–	–	–	X[12]
Usable as OPC UA client using function blocks (PLC open conform)	–	–	–	–	–	–	–	–	–	–	X
UDP protocol	X	X	X	X	X	X	X	X	X	X	–
open communication by means of the blocks FC5/FC50 "AG_SEND/AG_LSEND" and FC6/FC60 "AG_RECV/AG_LRECV"	X	X	X	X	X	X	X	X	X	X	–
open communication by means of the blocks FC53 "AG_SSEND" and FC63 "AG_SRECV"[8]	–	–	X	X	–	–	–	X	X	X	–
open communication by means of T blocks[5]	–	–	–	–	–	–	–	–	–	–	–
open communication by means of Fetch/Write (passsive)	–	–	–	–	–	–	–	–	–	–	–
Lock/Unlock for Fetch/Write	–	–	–	–	–	–	–	–	–	–	–
Diagnostics with AG_CNTRL	–	–	X	X	–	X	X	X	X	X	–
Syslog	–	–	–	–	–	–	–	–	X[13]	–	–
S7 communication	X	X	X	X	X	X	X	X	X	X	–
IT communication	–	–	–	–	X	X	X	X	X	–	–
E-mail client	–	–	–	–	X	X	X	X	X	–	–
HTML utilities	–	–	–	–	X	X	X	X	X	–	X
FTP server	–	–	–	–	X	X	X	X	X	–	–
FTP client	–	–	–	–	X	X	X	X	X	–	–
IP access protection (IP-ACL)	X[9]	X[9]	X	X	–	X	X	X	X	X	–
IP configuration (FB55 "IP_CONFIG")	–	–	X	X	X	X	X	X	X	–	–
PG/OP communication	X	X	X	X	X	X	X	X	X	X	X
SNMP protocol	–	–	X	X	–	X	X	X	X	X	X
PROFINET IO controller	–	–	X[3]	X[3]	–	X[2]	X[2]	X[3]	X[3]	–	–
PROFINET IO device	–	–	–	–	–	–	–	–	–	–	–
Shared device	–	–	X	X	–	–	–	X	X	–	–
I device	–	–	–	–	–	–	–	–	–	–	–
PROFINET / CBA	–	–	–	–	–	X	X	X	X	–	–
Media Redundancy Protocol (MRP)	–	–	X	X	–	–	–	X	X	–	–
Parallel Redundancy Protocol (PRP)	–	–	–	–	–	–	–	–	–	X	–
can be used in S7-400 H systems	X	X	X	X	–	–	–	X	X	X	X
S7 routing	X	X	X	X	X	X	X	X	X	X	X
Data record routing	–	–	–	–	–	–	–	–	–	–	–
Time-of-day sychronization	X[10]	X[10]	X	X	X	X	X	X	X	X	X
SIMATIC process	X[10]	X[10]	X	X	X	X	X	X	X	X	–
NTP process	X[10]	X[10]	X	X	X	X	X	X	X	X	X
Web diagnostic	–	–	X	X	–	–	–	X	X	X	X
MRP in H-system	–	–	–	X	–	–	–	–	X	–	–
PRP in H-system	–	–	–	–	–	–	–	–	–	X	–
LLDP in H-system	–	–	–	X	–	–	–	–	X	–	–
Security Integrated	–	–	–	–	–	–	–	–	X	–	–
Firewall	–	–	–	–	–	–	–	–	X	–	–
Virtual Private Network (VPN) over Ipsec	–	–	–	–	–	–	–	–	X	–	–
NAT/NAPT-Router	–	–	–	–	–	–	–	–	X	–	–

Connections											
RJ45	X	X	X[4)]	X[4)]	X	X[1)]	X[1)]	X[6)]	X[6)]	X[11)]	X
ITP	X	X	–	–	X	–	–	–	–	–	–
AUI	X	X	–	–	X	–	–	–	–	–	–
Transmission rates											
10 Mbps	X	X	X	X	X	X	X	X	X	X	X
100 Mbps	X	X	X	X	X	X	X	X	X	X	X
1000 Mbps	–	–	–	–	–	–	–	X[7)]	X[7)]	–	X
Quantity frameworks for OPC UA server mode											
Number of connections with OPC UA clients	–	–	–	–	–	–	–	–	–	–	10
max number of items in CPU data area / max. memory requirements	–	–	–	–	–	–	–	–	–	–	64000 Items (symbols / variables), 64000 bytes
max number of supported subscriptions	–	–	–	–	–	–	–	–	–	–	5 per session, 50 at once
max number of itmes per subscription	–	–	–	–	–	–	–	–	–	–	900 per subscription, 45000 over all subscriptions
Quantity frameworks for OPC UA client mode											
max. number of sessions with OPC UA server	–	–	–	–	–	–	–	–	–	–	5
max. number of items / Node-Handles	–	–	–	–	–	–	–	–	–	–	10000 altogether, therefrom: max. 10000 read access max 10000 write access
Quantity frameworks for Open Communcation											
number of possible connections for open communication	64	64	64	64	64	64	64	64	64	64	–
Data volume as useful data for open communication by means of the blocks FC5 "AG_SEND" and FC6 "AG_RECV" for each TCP/ISO-on-TCP/UDP/ISO transport connection max.	240 Byte	240 Byte	240 Byte	240 Byte	240 Byte	240 Byte	240 Byte	240 Byte	240 Byte	240 Byte	–
Data volume as useful data for open communication by means of the blocks FC50 "AG_LSEND" and FC60 "AG_LRECV" for each TCP/ISO-on-TCP/ISO transport connection max.	8 kByte	8 kByte	8 kByte	8 kByte	8 kByte	8 kByte	8 kByte	8 kByte	8 kByte	8 kByte	–
Data volume as useful data for open communication by means of the blocks FC50 "AG_LSEND" and FC60 "AG_LRECV" for each UDP connection max.	2 kByte	2 kByte	2 kByte	2 kByte	2 kByte	2 kByte	2 kByte	2 kByte	2 kByte	2 kByte	–
Data volume as useful data for open communication by means of the blocks FC53 "AG_SSEND" and FC63 "AG_SRECV" for each TCP/ISO-on-TCP/ISO transport connection max.	–	–	1452 Byte	1452 Byte	–	–	–	1452 Byte	1452 Byte	1452 Byte	–
Data volume as useful data for open communication by means of T blocks for each ISO-on-TCP connection max.	–	–	1452 Byte	1452 Byte	–	1452 Byte	1452 Byte	1452 Byte	1452 Byte	1452 Byte	–
Further connection resources											
number of possible connections for S7 communication max.	48	48	128	128	48	128	128	128	128	128	–
number of PG connections	2	2	2	2	2	2	2	2	2	2	2
number of OP connections	30	30	30	30	30	30	30	30	30	30	10
Multiprotocol (sum of all conenctions operating simultaneously)	64	64	128	128	64	128	128	128	128	128	–
Multicast	48	48	48	48	48	48	48	48	48	48	–

[1)] The module has 4x RJ45 ports.
[2)] The module does not support the extended PROFINET diagnostics topology identification, see Entry: http://support.automation.siemens.com/WW/view/en/23678970
[3)] The function PROFINET IO controller is not supported in H systems.
[4)] The module has 2x RJ45 ports.
[5)] Open communication by means of T blocks is not supported in S7-400 H system.
[6)] The module has 5x RJ45-ports.
[7)] The module has one gigabit interface.
[8)] The high-performance blocks FC53 "AG_SSEND" and FC63 "AG_SRECV" are not supported in S7-400 H system.
[9)] Function is supported from firmware version V2.3
[10)] Function is supported from firmware version V2.0
[11)] The module has 1x RJ45 port (Ethernet interface) and 2x RJ45 ports (RNA interface).
[12)] The service isn`t released in PCS 7.
[12)] The service is only supported when security mode is activated.