

The devices support the S2 system redundancy and H-Sync and can be integrated into SIMATIC S7-1500 R/H systems. In addition, the devices support Configuration in Run (CiR/H-CiR). This enables configuration changes defined via PROFINET to be performed at the switch during operation.

The configuration data can also be stored on the optionally available C-PLUG removable data storage medium. This enables quick configuration of a new device during device replacement.

All devices are suitable for the industry protocol PROFINET. The two models XP-208 and XP-216 are also available preassembled ex factory for EtherNet/IP.

4.5.17.2 Features and functions

Features

The individual devices have the characteristics shown in the following table:

	XP208	XP208 EEC	XP208PoE EEC	XP216	XP216 EEC	XP216PoE EEC
Gigabit Ethernet	-	-	-	•	•	•
PoE Power over Ethernet	-	-	•	-	-	•
Diagnostics LED	•	•	•	•	•	•
Redundant power supply	•	•	•	•	•	•
Signaling contact	•	•	•	•	•	•
Railway approval	-	•	•	-	•	•
On site display (Set button)	•	•	•	•	•	•
C-PLUG slot	•	•	•	•	•	•

- Suitable / available or according to the specified standard

Functions

All devices have the following functions:

- Configuration with the Primary Setup Tool (PST) V3 or higher; to use the Primary Setup Tool to assign the IP address, the switches must be accessible via Ethernet.
- Configuration of the IP address with DHCP
- Configuration with STEP 7
- Web Based Management
- Command Line Interface / Telnet
- SNMP / SNMP-supported diagnostics
- SNTP
- Ring redundancy including RM functionality
- Standby redundancy

- MRP interconnection
- STP/RSTP (Spanning Tree Protocol/Rapid Spanning Tree Protocol) as well as RSTP+
- Passive listening
- Topology support (LLDP)
- VLAN (Virtual Local Area Network) port based
- IGMP Snooping/Querier (Internet Group Management Protocol)
- DHCP server / DHCP client / DHCP options 66, 67, 82
- Access Control List (ACL), MAC and IP-based
- IEEE 802.1x (radius)
- Link aggregation
- PROFINET diagnostics
- Some devices exist in two variants: PROFINET and EtherNet/IP. However, the mode can be switched over as required for both device variants.
In EtherNet/IP mode, the devices also have EtherNet/IP diagnostics.

4.5.17.3 Interfaces

Device	Twisted pair			
	10/100 Mbps	10/100 Mbps with PoE	10/100/1000 Mbps	10/100/1000 Mbps with PoE
XP208 XP208 EEC	8x M12	-	-	-
XP208PoE EEC	4x M12	4x M12	-	-
XP216 XP216 EEC	12x M12	-	4x M12	-
XP216PoE EEC	6x M12	6x M12	2x M12	2x M12

4.5.17.4 Article numbers

Device	Description	Article number (PROFINET)	Article number (Ethernet/IP)
SCALANCE XP208	8x 10/100 Mbps M12 connector technology electrical	6GK5208-0HA00-2AS6	6GK5208-0HA00-2TS6
SCALANCE XP208 EEC	8x 10/100 Mbps M12 connector technology electrical, coated PCB	6GK5208-0HA00-2ES6	-
SCALANCE XP208PoE EEC	8x 10/100 Mbps M12 connector technology electrical, coated PCB, Power over Ethernet at 4 ports	6GK5208-0UA00-5ES6	-
SCALANCE XP216	12x 10/100 Mbps and 4x 10/100/1000 Mbps M12 connector technology electrical	6GK5216-0HA00-2AS6	6GK5216-0HA00-2TS6

Device	Description	Article number (PROFINET)	Article number (Ethernet/IP)
SCALANCE XP216 EEC	12x 10/100 Mbps and 4x 10/100/1000 Mbps M12 connector technology electrical, coated PCB	6GK5216-0HA00-2ES6	-
SCALANCE XP216PoE EEC	12x 10/100 Mbps und 4x 10/100/1000 Mbps M12 connector technology electrical, coated PCB, Power over Ethernet on 8 ports	6GK5216-0UA00-5ES6	-

4.5.18 SCALANCE X-300

4.5.18.1 Description



Figure 4-21 SCALANCE X308-2M PoE



Figure 4-22 SCALANCE XR324-4M PoE