



Innovation of the Industrial Ethernet Switches X-100

Unmanaged Switches

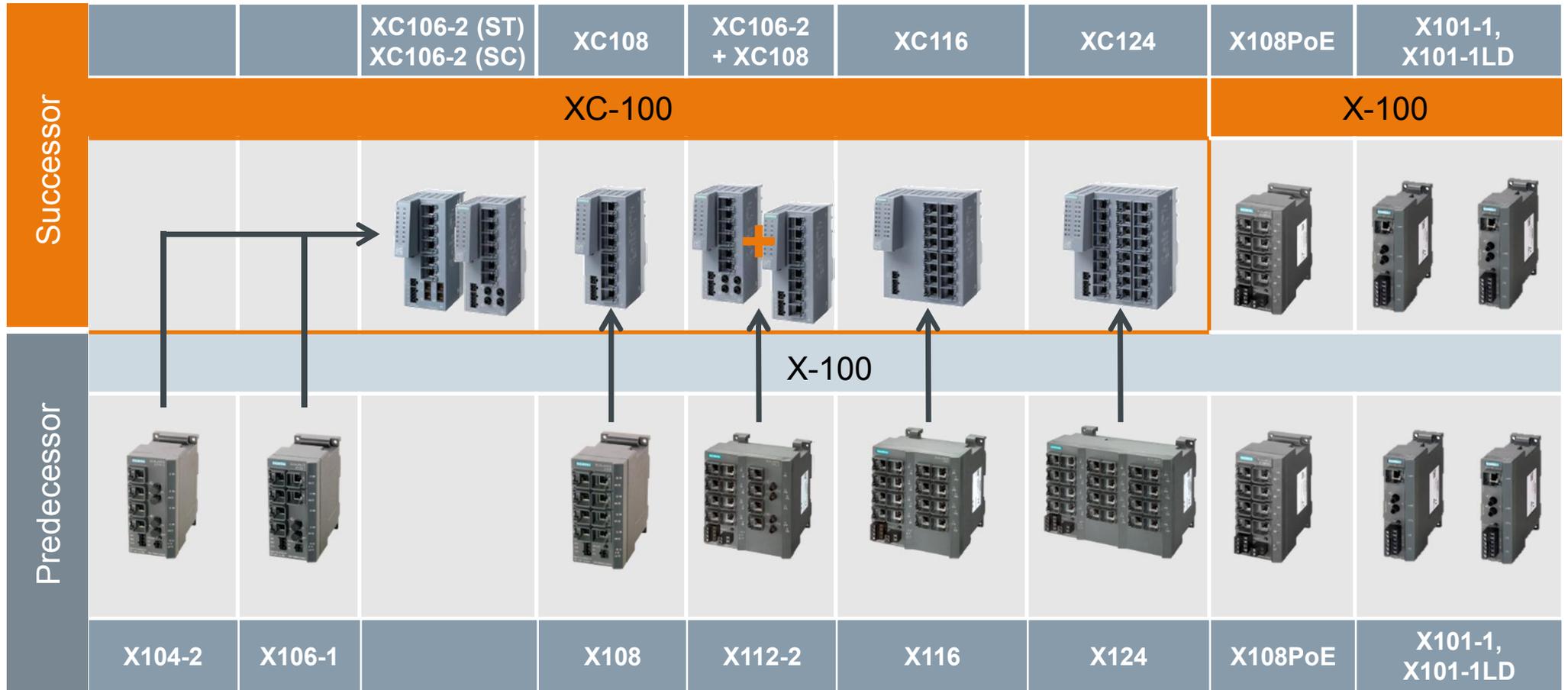
Technical Data CSM and SCALANCE



Main features	CSMs 	XB-000 	X005 	X-100 	XC-100 	XR-100WG 
Hardware						
Port version: electric	RJ45	RJ45	RJ45 (with bracket)	RJ45 (with bracket)	RJ45 (with bracket)	RJ45
Port version: optical	None	SC	None	ST/BFOC	ST/BFOC, SC	None
Temperature range	0 °C to +60 °C	-10 °C to +60 °C	0 °C to +65 °C	-20 °C to +70 °C	-40 °C to +70 °C	0 °C to +60 °C
Housing	Plastic	Plastic	Metal/plastic	Metal/plastic	Metal/plastic	Metal
Protection class	IP20	IP20	IP30	IP30	IP20	IP30
Mounting	DIN rail/Wall (LOGO!, CSM1277); S7-300 (CSM 377)	DIN rail, wall	S7-300, DIN rail, wall	S7-1500, S7-300, DIN rail, wall	S7-1500, S7-300, DIN rail, wall	Rack, DIN rail
GBIT	No	Yes	No	No	No	No
Dimensions WxHxD [mm]	45x100x75 (CSM 1200)	45x100x87 (XB008)	40x124x125	60x125x124 (X108)	60x147x125 (XC108)	482.6x 43.6x 127
Weight [g]	150 (CSM 1200)	180 (XB008)	550	780 (X108)	475 (XC108)	2700
Power consumption [mA]	70	120 (XB008)	80	140 (X108)	125 (XC108)	75 (AC version)
Alarm contact	No	No	No	Yes	Yes	Yes
Broadcast storm protection	No	No	No	No	Yes	No
Redundant power supply	No	No	No	Yes	Yes	Yes ¹⁾
Certificates						
ATEX/IECEX/Shipbuilding	Yes / Yes / Yes	Yes / Yes / No	Yes / Yes / Yes	Yes / Yes / Yes	Yes / Yes / Yes	Yes / Yes / No

SCALANCE XC-100

Predecessor-Successor Comparison



SCALANCE X104-2

Comparison of Technical Data



- Advantages of XC106-2 compared with X104-2**
- S7-1500 Design
 - Eight ports instead of six with the same width
 - Multiple mounting options (DIN rail, S7-300 rail, wall)
 - Lower net weight



Ports	4x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-10°C to 60°C
Protection class	IP30
Dimensions (WxHxD in mm)	60x125x124
Depth to bracket	120 mm
Mounting (see Comparison of Mounting Types)	
Additional mounting types	Wall mounting also lateral
Space requirements on DIN rail	see right
Space requirements on S7-300 rail	see right
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	160 mA
Net weight	780 g

Ports	6x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40°C to 70°C
Protection class	IP20
Dimensions (WxHxD in mm)	60x147x125
Depth to bracket	95 mm (space-saving cable outlet)
Mounting (see Comparison of Mounting Types)	
Additional mounting types	S7-1500
Space requirements on DIN rail	approx. -11 mm above and +33 mm below
Space requirements on S7-300 rail	approx. +18 mm above and +4 mm below
Separate grounding point	Grounding screw
NFC interface	No
Power consumption at 24 V DC	200 mA
Net weight	500 g

SCALANCE X106-1

Comparison of Technical Data

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Advantages of XC106-2 compared with X106-1

- S7-1500 Design
- Eight ports instead of seven with the same width
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower net weight

Ports	6x RJ45 and 1x ST/BFOC (100 Mbit/s)
Operating temperature	-10°C to 60°C
Protection class	IP30
Dimensions (WxHxD in mm)	60x125x124
Depth to bracket	120 mm
Mounting (see Comparison of Mounting Types)	
Additional mounting types	Wall mounting also lateral
Space requirements on DIN rail	see right
Space requirements on S7-300 rail	see right
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	150 mA
Net weight	780 g

Ports	6x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40°C to 70°C
Protection class	IP20
Dimensions (WxHxD in mm)	60x147x125
Depth to bracket	95 mm (space-saving cable outlet)
Mounting (see Comparison of Mounting Types)	
Additional mounting types	S7-1500
Space requirements on DIN rail	approx. -11 mm above and +33 mm below
Space requirements on S7-300 rail	approx. +18 mm above and +4 mm below
Separate grounding point	Grounding screw
NFC interface	No
Power consumption at 24 V DC	200 mA
Net weight	500 g

SCALANCE X108

Comparison of Technical Data



Predecessor		Successor
X108 6GK5108-0BA00-2AA3		XC108 6GK5108-0BA00-2AC2
Advantages of XC108 compared with X108		
<ul style="list-style-type: none"> • S7-1500 Design • Eight ports with bracket • Multiple mounting options (DIN rail, S7-300 rail, wall) • Lower net weight • Lower power consumption 		



Ports	8x RJ45 (100 Mbit/s)
Operating temperature	-20°C to 70°C
Protection class	IP30
Dimensions (WxHxD in mm)	60x125x124
Depth to bracket	120 mm
Mounting (see Comparison of Mounting Types)	
Additional mounting types	Wall mounting also lateral
Space requirements on DIN rail	see right
Space requirements on S7-300 rail	see right
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	140 mA
Net weight	780 g

Ports	8x RJ45 (100 Mbit/s)
Operating temperature	-40°C to 70°C
Protection class	IP20
Dimensions (WxHxD in mm)	60x147x125
Depth to bracket	95 mm (space-saving cable outlet)
Mounting (see Comparison of Mounting Types)	
Additional mounting types	S7-1500
Space requirements on DIN rail	approx. -11 mm above and +33 mm below
Space requirements on S7-300 rail	approx. +18 mm above and +4 mm below
Separate grounding point	Grounding screw
NFC interface	No
Power consumption at 24 V DC	125 mA
Net weight	475 g

SCALANCE X112-2

Comparison of Technical Data

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Predecessor

X112-2
6GK5112-2BB00-2AA3



Substitute solution

XC106-2 + XC108
6GK5106-2BB00-2AC2
+ 6GK5108-0BA00-2AC2
+ 6XV1870-3QE50

Advantages of the substitute solution compared with X112-2

- S7-1500 Design
- 16 ports instead of 14 with the same width
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower net weight
- Lower power consumption



Ports	8x RJ45 (100 Mbit/s)
Operating temperature	-10°C to 70°C
Protection class	IP30
Dimensions (WxHxD in mm)	120x125x124
Depth to bracket	120 mm
Mounting (see Comparison of Mounting Types)	
Additional mounting types	Wall mounting also lateral
Space requirements on DIN rail	see right
Space requirements on S7-300 rail	see right
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	450 mA
Net weight	1100 g

Ports	14x RJ45 and 2x SC (100 Mbit/s)
Operating temperature	-40°C to 70°C
Protection class	IP20
Dimensions (WxHxD in mm)	(60+60) x147x125
Depth to bracket	95 mm (space-saving cable outlet)
Mounting (see Comparison of Mounting Types)	
Additional mounting types	S7-1500
Space requirements on DIN rail	approx. -11 mm above and +33 mm below
Space requirements on S7-300 rail	approx. +18 mm above and +4 mm below
Separate grounding point	Grounding screw
NFC interface	No
Power consumption at 24 V DC	(200+125) = 325 mA
Net weight	(500+475) = 975 g

SCALANCE X116

Comparison of Technical Data

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Predecessor

X116
6GK5116-0BA00-2AA3



Successor

XC116
6GK5116-0BA00-2AC2



Advantages of XC116 compared with X116

- S7-1500 Design
- 16 ports with bracket
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower net weight
- Lower power consumption

Ports	16x RJ45 (100 Mbit/s)
Operating temperature	-20°C to 70°C
Protection class	IP30
Dimensions (WxHxD in mm)	120x125x124
Depth to bracket	120 mm
Mounting (see Comparison of Mounting Types)	
Additional mounting types	Wall mounting also lateral
Space requirements on DIN rail	see right
Space requirements on S7-300 rail	see right
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	300 mA
Net weight	1100 g

Ports	16x RJ45 (100 Mbit/s)
Operating temperature	-40°C to 70°C
Protection class	IP20
Dimensions (WxHxD in mm)	120x147x125
Depth to bracket	95 mm (space-saving cable outlet)
Mounting (see Comparison of Mounting Types)	
Additional mounting types	S7-1500
Space requirements on DIN rail	approx. -11 mm above and +33 mm below
Space requirements on S7-300 rail	approx. +18 mm above and +4 mm below
Separate grounding point	Grounding screw
NFC interface	No
Power consumption at 24 V DC	225 mA
Net weight	775 g

SCALANCE X124

Comparison of Technical Data

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- Advantages of XC124 compared with X124**
- S7-1500 Design
 - Multiple mounting options (DIN rail, S7-300 rail, wall)
 - Lower net weight
 - Lower power consumption
 - Narrower design

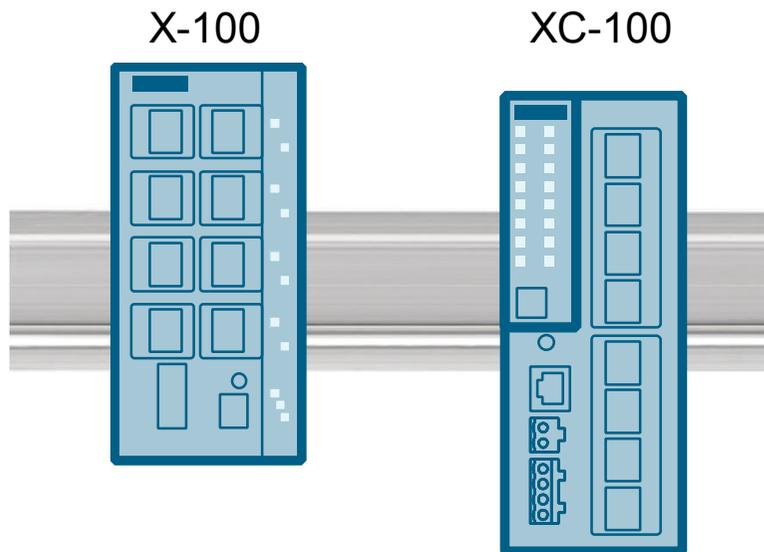
Ports	24x RJ45 (100 Mbit/s)
Operating temperature	-20°C to 70°C
Protection class	IP30
Dimensions (WxHxD in mm)	180x125x124
Depth to bracket	120 mm
Mounting (see Comparison of Mounting Types)	
Additional mounting types	Wall mounting also lateral
Space requirements on DIN rail	see right
Space requirements on S7-300 rail	see right
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	450 mA
Net weight	1500 g

Ports	24x RJ45 (100 Mbit/s)
Operating temperature	-40°C to 70°C
Protection class	IP20
Dimensions (WxHxD in mm)	120x147x125
Depth to bracket	95 mm (space-saving cable outlet)
Mounting (see Comparison of Mounting Types)	
Additional mounting types	S7-1500
Space requirements on DIN rail	approx. -11 mm above and +33 mm below
Space requirements on S7-300 rail	approx. +18 mm above and +4 mm below
Separate grounding point	Grounding screw
NFC interface	No
Power consumption at 24 V DC	325 mA
Net weight	850 g

Comparison of Mounting Types

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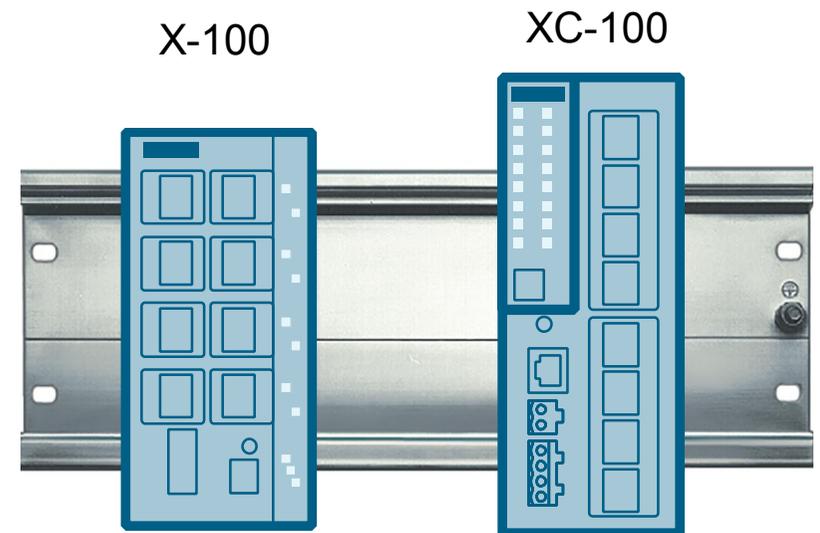
Position on the DIN rail



XC-100 is positioned as follows compared with X-100:

- -11 mm above
- +33 mm below

Position on the S7-300 rail



XC-100 is positioned as follows compared with X-100:

- +18 mm above
- +4 mm below