







Innovation of the Industrial Ethernet Switches X-200

SCALANCE XC-200

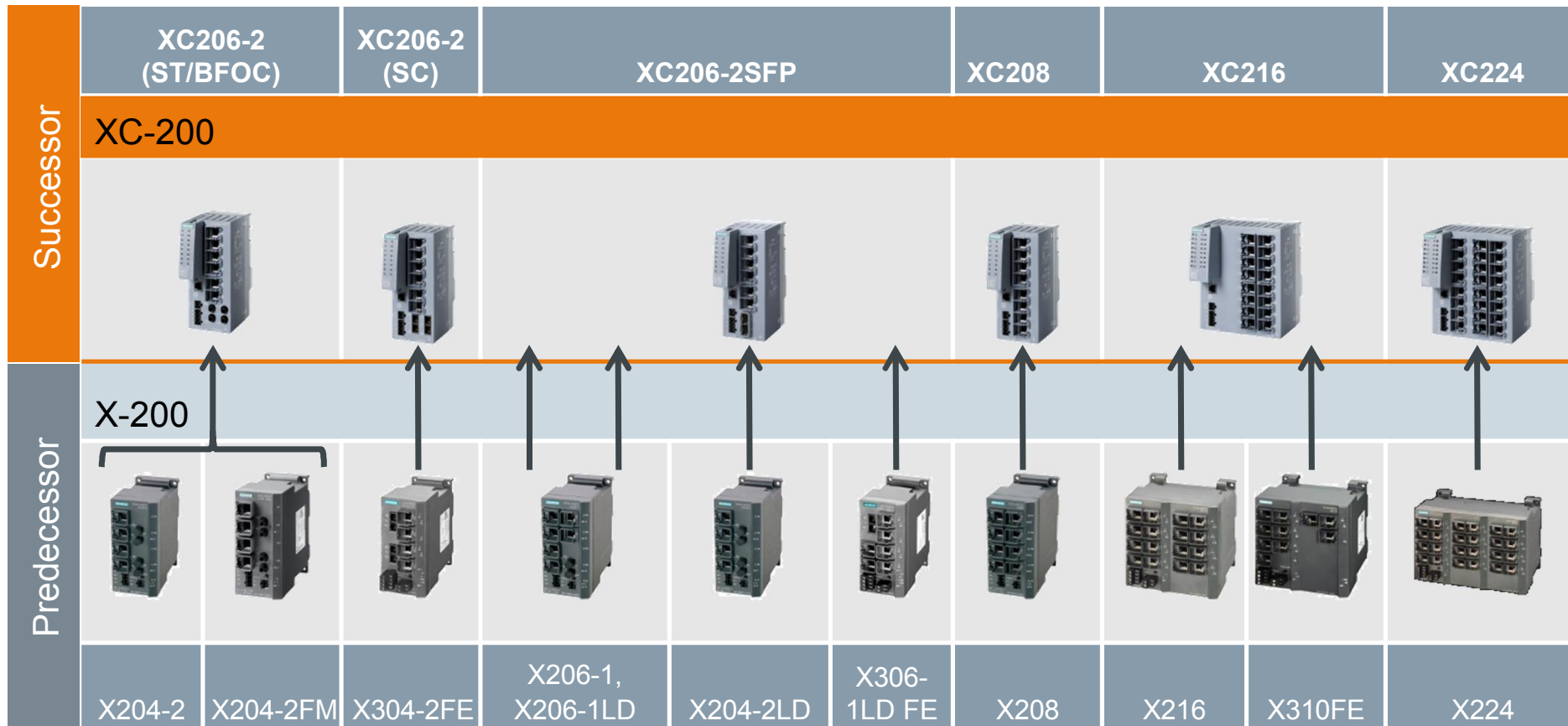
Comparison of Technical Data



Main features	X-200 (e.g. X212-2) 	XB-200 (e.g. XB213-3) 	XC200 (e.g. XC206-2SFP) 	X-300 (e.g. X308-2M) 
Hardware				
Port version: electric/optical	12x RJ45 / 2x FO	13x RJ45 / 3x FO	6x RJ45/2x FO	4x RJ45 / 2x MM
FO version	ST/BFOC	SC or ST/BFOC	SC, ST/BFOC or SFP	SC, ST/BFOC or SFP
Temperature range	-40 °C to +60 °C	0 °C to +60 °C	-40 °C to +70 °C	-40 °C to +70 °C
Housing	Metal / plastic	Plastic	Metal / plastic	Metal / plastic
Protection class	IP30	IP20	IP20	IP20
Mounting	DIN rail, S7-300, S7-1500 rail, wall	DIN rail, S7-1500 rail	DIN rail, S7-300, S7-1500 rail, wall	DIN rail, S7-300, S7-1500 rail, wall
Data rate	10/100 Mbit/s	10/100 Mbit/s	10/100/1000 Mbit/s ¹⁾	10/100 Mbit/s
Dimensions WxHxD [mm] / Weight [g]	120x 125x 124 / 1200	120x 117x 109 / 500	60x 147x 125 / 520	120x 125x 124 / 1400
Power-over-Ethernet (PoE)	No	No	No	max. 4 (total 30 W)
Advanced features				
RSTP / VLAN / IEEE 802.1X	No	Yes	Yes	Yes
PROFINET / EtherNet/IP	Yes / No	Yes / Yes	Yes / Yes	Yes / No
Compliance				
ATEX / IECEx / Shipbuilding ¹⁾	Yes / Yes / Yes	Yes / Yes / No	Yes / Yes / Yes	Yes / Yes / Yes
Railway certificate 50121-4	No	No	Yes	¹⁾ Gigabit valid only for SFP version

SCALANCE XC-200

Predecessor-Successor Comparison



Advantages of SCALANCE XC-200

- Additional functions compared with SCALANCE X-200:
 - Virtual Local Area Network (VLAN) (port-based)
 - Switchable between Profinet and EtherNet/IP profile
 - IGMP Snooping and Query
 - HRP Standby Master/Slave
 - Link Aggregation
 - Fiber Monitoring on all Versions with Fiber Optic
 - IEEE 802.1X
 - Rapid Spanning Tree Protocol (RSTP and MSTP)
 - Remote Network Monitoring (RMON)
 - Port-granular bandwidth limitation
 - Integration in the TIA Portal
- SIMATIC S7-1500 Design with clearly structured diagnostics block
- C-PLUG more easily accessible above in bay
- Additional console port
- Mounting options for S7-300, S7-1500 rail, standard DIN rail and wall

SCALANCE X104-2

Comparison of Technical Data

SIEMENS
Ingenuity for life



Predecessor

X204-2
6GK5204-2BB10-2AA3



Successor

XC206-2 (ST/BFOC)
6GK5206-2BB00-2AC2



Advantages of XC206-2 compared with X204-2

- S7-1500 Design
- Eight ports instead of six with the same width
- Additional firmware functions (e.g. VLAN)
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower power consumption
- Lower net weight

Ports	4x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40°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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	265 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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	250 mA
Net weight	540 g

SCALANCE X204-2FM

Comparison of Technical Data



Predecessor		Successor
X204-2FM 6GK5204-2BB11-2AA3		XC206-2 (ST/BFOC) 6GK5206-2BB00-2AC2

Advantages of XC206-2 compared with X204-2FM

- S7-1500 Design
- Eight ports instead of six with the same width
- Additional firmware functions (e.g. VLAN)
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower power consumption
- Lower net weight



Ports	4x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40°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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	265 mA
Net weight	780 g

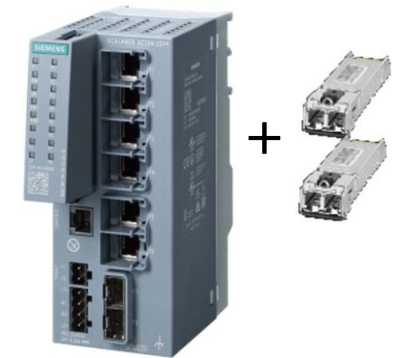
Ports	6x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40°C to 70°C
Protection class	IP20
Dimensions (WxHxD in mm)	60x147x125
Depth to bracket	95 mm (space-saving cable outlet)
Mounting (see Comparison of Mounting Types)	
Additional mounting types	S7-1500
Space requirements on DIN rail	approx. -11 mm above and +33 mm below
Space requirements on S7-300 rail	approx. +18 mm above and +4 mm below
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	250 mA
Net weight	540 g

SCALANCE X204-2LD

Comparison of Technical Data



Predecessor		Successor
X204-2LD 6GK5204-2BC10-2AA3		XC206-2SFP 6GK5206-2BS00-2AC2 + 2x 6GK5991-1AF00-8AA0
Advantages of XC206-2SFP compared with X204-2LD		
<ul style="list-style-type: none"> • S7-1500 Design • Eight ports instead of six with the same width • Additional firmware functions (e.g. VLAN) • Multiple mounting options (DIN rail, S7-300 rail, wall) • Lower power consumption • Lower net weight 		



Ports	4x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40°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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	265 mA
Net weight	780 g


Ports	6x RJ45 (100 Mbit/s); 2x SFP (100/1000 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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	250 mA (with SFP)
Net weight	(520+2x10) 540 g

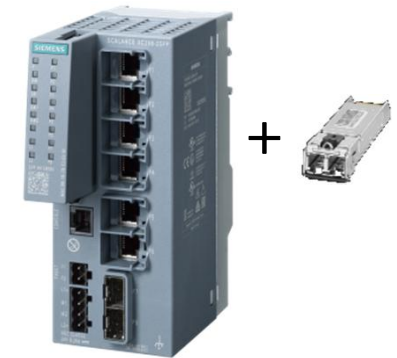
SCALANCE X206-1

Comparison of Technical Data

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Predecessor		Successor
X206-1 6GK5206-1BB10-2AA3		XC206-2SFP 6GK5206-2BS00-2AC2 + 6GK5991-1AD00-8AA0
Advantages of XC206-2SFP compared with X206-1		
<ul style="list-style-type: none"> • S7-1500 Design • Eight ports instead of seven with the same width • Additional firmware functions (e.g. VLAN) • Multiple mounting options (DIN rail, S7-300 rail, wall) • Console port for direct device access • Lower net weight 		



Ports	6x RJ45 and 1x ST/BFOC (100 Mbit/s)
Operating temperature	-40°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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	220 mA
Net weight	780 g

Ports	6x RJ45 (100 Mbit/s); 2x SFP (100/1000 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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	250 mA (with SFP)
Net weight	(520+10) = 530 g

SCALANCE X206-1 LD

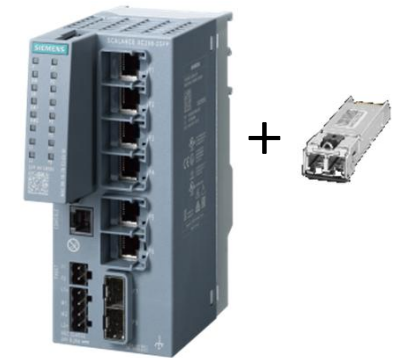
Comparison of Technical Data



Predecessor		Successor
X206-1 LD 6GK5206-1BC10-2AA3		XC206-2SFP 6GK5206-2BS00-2AC2 + 6GK5991-1AF00-8AA0

Advantages of XC206-2SFP compared with X206-1 LD

- S7-1500 Design
- Eight ports instead of seven with the same width
- Additional firmware functions (e.g. VLAN)
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Console port for direct device access
- Lower net weight



Ports	6x RJ45 and 1x ST/BFOC (100 Mbit/s)
Operating temperature	-40°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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	220 mA
Net weight	780 g

Ports	6x RJ45 (100 Mbit/s); 2x SFP (100/1000 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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	250 mA (with SFP)
Net weight	(520+10) = 530 g

SCALANCE X208

Comparison of Technical Data

SIEMENS
Ingenuity for life



Predecessor

X208
6GK5208-0BA10-2AA3



Successor

XC208
6GK5208-0BA00-2AC2

Advantages of XC208 compared with X208

- S7-1500 Design
- Console port for direct device access
- Additional firmware functions (e.g. VLAN)
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower power consumption
- Lower net weight



Ports	8x RJ45 (100 Mbit/s)
Operating temperature	-40°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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	185 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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	175 mA
Net weight	520 g

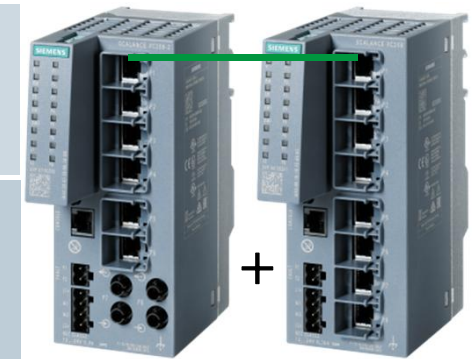
SCALANCE X212-2

Comparison of Technical Data



Successor is planned

<p>Predecessor</p> <p>X212-2 6GK5212-2BB00-2AA3</p>		<p>Substitute solution</p> <p>XC206-2 + XC208 6GK5206-2BB00-2AC2 + 6GK5208-0BA00-2AC2 + 6XV1870-3QE50</p>
<p>Advantages of the substitute solution compared with X212-2</p> <ul style="list-style-type: none"> • S7-1500 Design • Console port for direct device access • Additional firmware functions (e.g. VLAN) • Multiple mounting options (DIN rail, S7-300 rail, wall) • Lower net weight 		



Ports	12x RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40 °C to +60 °C
Protection class	IP30
Switch architecture	Full Wire Speed
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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	330 mA
Net weight	1200 g

Ports	12x (5+7) RJ45 and 2x ST/BFOC (100 Mbit/s)
Operating temperature	-40 °C to +70 °C
Protection class	IP20
Switch architecture	Full Wire Speed; 100 Mbit/s between devices
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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	(250+175) = 425 mA
Net weight	(540+520) = 1060 g

SCALANCE X212-2 LD

Comparison of Technical Data

SIEMENS
Ingenuity for life

Successor is planned



Predecessor

X212-2 LD
6GK5212-2BC00-2AA3

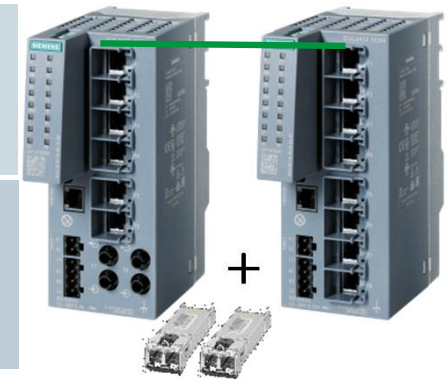
Substitute solution **XC206-2 SFP + XC208**

6GK5206-2BS00-2AC2
+ 6GK5208-0BA00-2AC2
+ 2x 6GK5991-1AF00-8AA0
+ 6XV1870-3QE50



Advantages of substitute solution compared with X212-2 LD

- S7-1500 Design
- Additional firmware functions (e.g. VLAN)
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower net weight



Ports	12x RJ45 and 2x BFOC/ST (100 Mbit/s)
Operating temperature	-40 °C to +60 °C
Protection class	IP30
Switch architecture	Full Wire Speed
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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	330 mA
Net weight	1200 g

Ports	12x (5+7) RJ45 (100Mbit/s); 2x SFP (100/1000 Mbit/s)
Operating temperature	-40 °C to +70 °C
Protection class	IP20
Switch architecture	Full Wire Speed; 100 Mbit/s between devices
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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	(250+175) = 425 mA
Net weight	(540+520) = 1080 g

SCALANCE X216

Comparison of Technical Data

SIEMENS
Ingenuity for life



Predecessor		Successor
X216 6GK5216-0BA00-2AA3		XC216 6GK5216-0BA00-2AC2
Advantages of XC216 compared with X216		
<ul style="list-style-type: none"> • S7-1500 Design • Console port for direct device access • Additional firmware functions (e.g. VLAN) • Multiple mounting options (DIN rail, S7-300 rail, wall) • Lower net weight 		



Ports	16x RJ45 (100 Mbit/s)
Operating temperature	-40°C to 60°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
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	240 mA
Net weight	1200 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
C-PLUG	Bay above (easier access)
Console port	1x RJ11
Separate grounding point	Grounding screw
NFC interface	Yes
Power consumption at 24 V DC	275 mA
Net weight	800 g

SCALANCE X224

Comparison of Technical Data

SIEMENS
Ingenuity for life



Predecessor

X224
6GK5224-0BA00-2AA3



Successor

XC224
6GK5224-0BA00-2AC2



Advantages of XC224 compared with X224

- S7-1500 Design
- Console port for direct device access
- Additional firmware functions (e.g. VLAN)
- Multiple mounting options (DIN rail, S7-300 rail, wall)
- Lower net weight

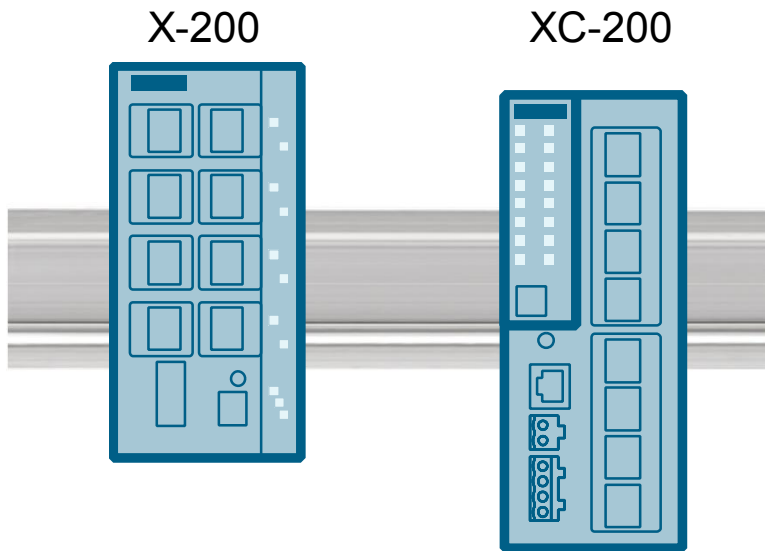
Ports	24x RJ45 (100 Mbit/s)
Operating temperature	-40°C to 60°C
Protection class	IP30
Dimensions (WxHxD in mm)	180x125x124
Depth to bracket	120 mm
Mounting (see Comparison of Mounting Types)	Wall mounting also lateral
Additional mounting types	see right
Space requirements on DIN rail	see right
Space requirements on S7-300 rail	see right
C-PLUG	Bay back
Console port	No
Separate grounding point	No
NFC interface	No
Power consumption at 24 V DC	350 mA
Net weight	1600 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)	S7-1500
Additional mounting types	approx. -11 mm above and +33 mm below
Space requirements on DIN rail	approx. +18 mm above and +4 mm below
Space requirements on S7-300 rail	Bay above (easier access)
C-PLUG	1x RJ11
Console port	Grounding screw
Separate grounding point	Yes
NFC interface	Yes
Power consumption at 24 V DC	375 mA
Net weight	880 g

Comparison of Mounting Types

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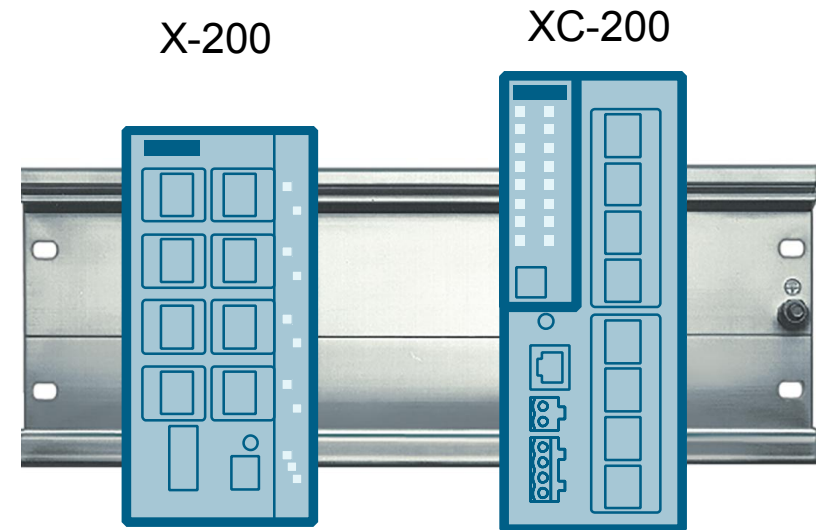
Position on the DIN rail



XC-200 is positioned as follows compared with X-200:

- -11 mm above
- +33 mm below

Position on the S7-300 rail



XC-200 is positioned as follows compared with X-200:

- +18 mm above
- +4 mm below