

X20HB2880, X20HB1881, X20HB2881



Short description	X20HB2880	X20HB1881	X20HB2881
Hub	2 Fast Ethernet hubs for hub expansion	1 Fast Ethernet interface for fiber optic cable for hub expansion	2 Fast Ethernet interfaces for fiber optic cable for hub expansion
General information	X20HB2880	X20HB1881	X20HB2881
Power consumption	1.17 W	1.45 W (Rev. <D0: 1.65 W)	2.3 W (Rev. <E0: 2.8 W)
Certification			
CE		Yes	
cULus		Yes	
cCSAus HazLoc Class 1 Division 2	Yes	-	-
ATEX Zone 2 ¹⁾		Yes	
KC		Yes	
GL	Yes	-	-
LR	Yes	-	-
GOST-R		Yes	
Interfaces	X20HB2880	X20HB1881	X20HB2881
Type		Hub expansion module	
Design	2x shielded RJ45	1x duplex LC female	2x duplex LC female
Cable length	Max. 100 m between 2 stations (segment length)	-	-
Transfer rate		100 Mbit/s	
Transmission			
Physical layer	100BASE-TX	100BASE-FX	100BASE-FX
Half-duplex		Yes	
Full-duplex		No	
Autonegotiation	Yes	No	No
Auto-MDI / MDIX	Yes	No	No
Cable fiber type	-	Multimode fiber with 62.5/125 µm or 50/125 µm core diameter On both sides: Duplex LC male connector	Multimode fiber with 62.5/125 µm or 50/125 µm core diameter On both sides: Duplex LC male connector
Cable length			
Half-duplex	-	Max. 400 m between 2 stations (segment length)	Max. 400 m between 2 stations (segment length)
POWERLINK	-	Max. 2 km between 2 stations (segment length)	Max. 2 km between 2 stations (segment length)
Environmental conditions	X20HB2880	X20HB1881	X20HB2881
Temperature			
Operation			
Horizontal installation	-25 to 60°C	-25 to 60°C	-
Horizontal installation (with 1 hub)	-	-	-25 to 55°C (Rev. <E0: 0 to 45°C)
Horizontal installation (with ≥2 hubs)	-	-	-25 to 50°C (Rev. <E0: 0 to 40°C)
Vertical installation	-25 to 50°C	-25 to 50°C	-
Vertical installation (with 1 hub)	-	-	-25 to 40°C (Rev. <E0: 0 to 40°C)
Vertical installation (with ≥2 hubs)	-	-	-25 to 35°C (Rev. <E0: 0 to 35°C)

System modules for the X20 hub system

X20HB2880, X20HB1881, X20HB2881

Mechanical characteristics

	X20HB2880	X20HB1881	X20HB2881
Slot	Hub expansion for X20BC8083 and X20HB8880	Hub expansion for X20BC8083, X20BC8084 and X20HB8880 ²⁾	Hub expansion for X20BC8083 and X20HB8880 ³⁾

¹⁾ Ta min.: 0°C
Ta max.: See environmental conditions

²⁾ The hardware revision of X20BC8083 and X20HB8880 must be ≥F0 and the hardware revision of X20BC8084 must be ≥D0.

³⁾ The hardware revision of X20BC8083 and X20HB8880 must be ≥F0.

Modules for the X20 redundancy system

X20HB8884



Short description

POWERLINK compact link selector	Connects POWERLINK devices to a redundant POWERLINK network
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General information

Power consumption	2 W
Certification	
CE	Yes
cULus	Yes
cCSAus HazLoc Class 1 Division 2	Yes
ATEX Zone 2 ¹⁾	Yes
KC	Yes
GL	Yes
LR	Yes
GOST-R	Yes

Interfaces

Type	POWERLINK compact link selector
Design	2x shielded RJ45
Cable length	Max. 100 m between 2 stations (segment length)
Transfer rate	100 Mbit/s
Transmission	
Physical layer	100BASE-TX
Half-duplex	Yes
Full-duplex	No
Autonegotiation	Yes
Auto-MDI / MDIX	Yes

Environmental conditions

Temperature	
Operation	
Horizontal installation	-25 to 60°C
Vertical installation	-25 to 50°C

Mechanical characteristics

Note	Order 1x X20TB12 terminal block separately Order 1x X20PS8002 power supply module separately Order 1x X20HB2880 or 2x X20HB2885 hub expansion module separately Order 1x X20BB81 or X20BB82 bus base separately
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¹⁾ Ta min.: 0°C
Ta max.: See environmental conditions