

Product: <u>BXP62-20TX-EECC-HV-3A</u>



6 x 1/2.5/10 Gbit/s TX + 14 x 10/100/1000 Mbit/s TX, PoE/PoE+/PoE ++, 110 VDC, -40°C to +70 °C, HiOS 3A

Product Description

The Hirschmann BXP (BOBCAT eXtreme Performance) managed switch offers a compact design, enhanced flexibility and interoperability, and speeds of up to 10 Gbps for railway rolling stock applications. PoE support in total up to 120W using 10GE-and 1GE-M12 port

Technical Specifications

Product description

Туре:	BXP62-20TX-EECC-HV-3A	
Name:	62-20TX-EECC-HV-3A	
Software Version:	HiOS 09.6.00	
Part Number:	942334002	
Port type and quantity:	20 ports in total: 4 x 1/2.5/10 Gbit/s TX-M12 X-coded and 2 x 1/2.5/10 Gbit/s TX-M12 X-coded PoE++ and 2 x 10/100/1000 Mbit/s TX-M12 X-coded PoE++ and 12 x 10/100/1000 Mbit/s	
PoE Support:	Maximum power available to PoE end devices in total: 120 W, divided between the ports: Port 1 4: 0 W Port 5 6: 90 W Port 7 8: 60 W Port 9 20: 30 W	

More Interfaces

Power supply/signaling contact:	1 x 5-pin, "A"-coded M12 socket
Digital Input:	1 x 5-pin, "A"-coded M12 socket

Network size - cascadibility

Line - / star topology: any

Power requirements

Operating Voltage:	0 VDC (77 V DC 138 V DC)	
Power consumption:	57 W	
Power output in BTU (IT)/h:	195 Bts (IT)/h	

Software

Switching:	Independent VLAN Learning, Fast Aging, Static Unicast/Multicast Address Entries, QoS / Port Prioritization (802.1D/p), TOS/DSCP Prioritization, Interface Trust Mode, CoS Queue Management, IP Ingress DiffServ Classification and Policing, IP Egress DiffServ Classification and Policing, Queue-Shaping / Max. Queue Bandwidth, Flow Control (802.3X), Egress Interface Shaping, Ingress Storm Protection, Jumbo Frames, VLAN (802.1Q), Protocol-based VLAN, VLAN Unaware Mode, GARP VLAN Registration Protocol (GVRP), Double VLAN Tagging (QinQ), Voice VLAN, MAC-based VLAN, IP subnet-based VLAN, GARP Multicast Registration Protocol (GMRP), IGMP Snooping/Querier per VLAN (v1/v2/v3), Unknown Multicast Filtering, Multiple VLAN Registration Protocol (MVRP), Multiple MAC Registration Protocol (MMRP), Multiple Registration Protocol (MRP)
Redundancy:	HIPER-Ring (Ring Switch), HIPER-Ring over Link Aggregation, Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2), MRP over Link Aggregation, Redundant Network Coupling, Sub Ring Manager, RSTP 802.1D-2004 (IEC62439-1), MSTP (802.1Q), RSTP Guards
Management:	DNS Client, Dual Software Image Support, TFTP, SFTP, SCP, LLDP (802.1AB), LLDP-MED, SSHv2, OPC-UA Server, V.24, HTTP, HTTPS, IPv6 Management, Service Discovery, Traps, SNMPv1/v2 Read-Only, SNMP v1/v2/v3, SNMPv3 Traps, Telnet
Diagnostics:	Management Address Conflict Detection,MAC Notification,Signal Contact,Device Status Indication,TCPDump,LEDs,Syslog,Persistent Logging on ACA,Email Notification,Port Monitoring with Auto-Disable,Link Flap Detection,Overload Detection,Duplex Mismatch Detection,Link Speed and Duplex Monitoring,RMON (1,2,3,9),Port Mirroring 1:1,Port Mirroring 8:1,Port Mirroring N:1,RSPAN,SFLOW,VLAN Mirroring,System Information,Self-Tests on Cold Start,Copper Cable Test,Configuration Check Dialog,Switch Dump
Configuration:	Automatic Configuration Undo (roll-back), Configuration Fingerprint, XML-based Configuration File, Backup config on a remote server when saving, Clear config but keep IP settings, BOOTP/DHCP Client with Auto-Configuration, DHCP Server: per Port, DHCP Server: Pools per VLAN, AutoConfiguration Adapter ACA31 (SD card), HiDiscovery, DHCP Relay with Option 82, Interface Shutdown via Tracking, Auto Disable, Command Line Interface (CLI), CLI Scripting, CLI script handling over ENVM at boot, Full-featured MIB Support, Context-sensitive Help, HTML5 based Management

Security:	Signed Firmware Images, MAC-based Port Security, Port-based Access Control with 802.1X, Guest/unauthenticated VLAN, Integrated Authentication Server (IAS), RADIUS VLAt Assignment, RADIUS Policy Assignment, Multi-Client Authentication per Port, MAC Authentication Bypass, Format options for MAC authentication bypass, DHCP Snooping, IP Sc Guard, Dynamic ARP Inspection, Denial-of-Service Prevention, RADIUS Client, LDAP, Ingress MAC-based ACL, Egress MAC-based ACL, Ingress IPv4-based ACL, Egress VLAN-based ACL, Time-based ACL, VLAN-based ACL, Ingress VLAN-based ACL, Egress VLAN-based ACL, Act, Time-based ACL, ULAN-based ACL, Ingress VLAN-based ACL, Egress VLAN-based ACL, Act, Egress VLAN-based ACL, Note Store VLAN, Device Se Indication, Audit Trail, CLI Logging, HTTPS Certificate Management, Restricted Management Access, Appropriate Use Banner, Configurable Password Policy, Configurable Numl Login Attempts, SNMP Logging, Multiple Privilege Levels, Local User Management, Remote Authentication via RADIUS, User Account Locking, Password change on first login	
Time synchronisation:	Buffered Real Time Clock, SNTP Client, SNTP Server	
Industrial Profiles:	EtherNet/IP Protocol, Modbus TCP, PROFINET Protocol	
Miscellaneous:	Digital IO Management, PoE (802.3af), PoE+ (802.3at), Manual Cable Crossing, Port Power Down	

Ambient conditions

Air Pressure (Operation):	00 hPa (+3000 m ASL; +9842 ft ASL) maxy 1060 hPa (-400 m ASL; -1312 ft ASL)	
Operating temperature:	-40-+70	
Storage/transport temperature:	-40-+85 °C	

Mechanical construction

Dimensions (WxHxD):	28 mm x 117,6 mm x 168,9 mm	
Weight:	6100 g	
Housing:	Metal	
Mounting:	Flat surface mounting	
Protection class:	IP40	

Mechanical stability

IEC 60068-2-6 vibration:	3.5 mm, 5–8.4 Hz, 10 cycles, 1 octave/min; 1 g, 8.4–200 Hz, 10 cycles per axis, 1 octave/min operational: 5 Hz 150 Hz, 1,0 m/s² (rms) non operational: 5 Hz 150 Hz, 5,72 m/s² (rms)
IEC 60068-2-27 shock:	15 g, 11 ms duration; vertical: 30 m/s², 30 ms, horizontal: 50 m/s², 30 ms

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD):	6 kV contact discharge; ± 8 kV air discharge	
EN 61000-4-3 electromagnetic field:	/m (80 MHz 1000 MHz), 10 V/m (1.4 GHz 2.0 GHz), 5 V/m (2.0 GHz 2.7 GHz), 3 V/m (2.7 GHz 6,0 GHz)	
EN 61000-4-4 fast transients (burst):	2 kV power line, 2 kV data line	
EN 61000-4-5 surge voltage:	power line/ground ±2 kV, power line/line ±1 kV, data line/ground ±2 kV	
EN 61000-4-6 Conducted Immunity:	10 V (150 kHz 80 MHz)	

EMC emitted immunity

EN 55032:	EN 55032 Class A
FCC CFR47 Part 15:	FCC 47CFR Part 15, Class A

Approvals

Basis Standard:	CE, FCC, UKCA, EN 61131, EN 62368-1
Transportation:	EN 50121-4, EN 50155, EN 45545 HL3

Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)

Scope of delivery and accessories

Accessories to Order Separately:	ACA31 (942074001); RKCCS 5K - M12 Power Field Attachable Connector (934935002); Network management software Industrial HiVision (943156xxx); Protection crew for M12 socket, metal, IP65/67/69K (942057001); Protection crew for M12 ocket, plastic, IP65/67 (942057002); Terminap cable (943902001)
Scope of delivery:	1 × Device, 1 × Safety and general information sheet 1 × Exclusively for device variants featuring supply voltage with characterstic value MB, Connector for the power supply, M12, "K"-coded

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html

History

Update and Revision Number: 0.22 Revision Date: 03-12-2024

Variants

Item #	Туре	
942334002	BXP62-20TX-EECC-HV-3A	

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.