



FIBRE OPTIC NETWORK SWITCHES

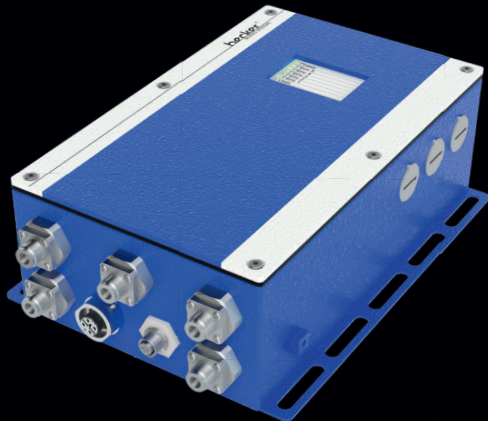
WRAP260

- Cloud Router – Switch
- Up to 10 x 1 Gbit/s fibre ethernet ports
- 3 x 100 Mbit/s + 5 x 1 Gbit/s for Gateway use
- Part of the intrinsically safe communication system
- With battery buffering

WRAP260 SWITCHES

The Cloud Router Switch WRAP260 is an intelligent switch with high performance MIPS CPU and feature-rich packet processor. It can be used for various Ethernet applications:

- as unmanaged switch
- layer 2 managed switch
- carrier switch
- for wired unified packet processing.



The switch is available in different configurations with:

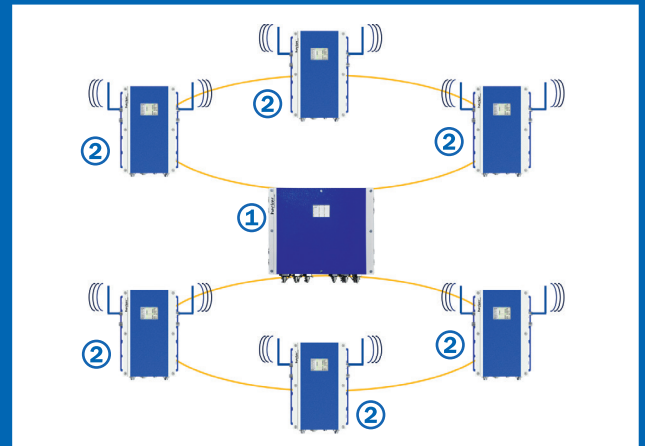
- 5 x 1 Gbit/s fibre optic ports
- 10 x 1 Gbit/s fibre optic ports
- 5 x 1 Gbit/s fibre optic ports + 3 x 100 Mbit/s ports

The devices have IP65 or IP67 ingress protection rating for rugged mining applications.

SWITCH MANAGEMENT

A local LED display shows status information about the different ports. The WRAP260 Switch can also be managed remotely via PC-Software.

APPLICATION EXAMPLE



1 WRAP260 Switch

2 WRAP260 Router

FIBRE OPTIC DEVICE CABLES

BOS device cables are preassembled fibre optic cables that are designed for use with network devices.



The cables are fitted with a connector with anti-kink protection and 2 fibres.

The device cables can also be set up as combination cables (device plug with anti-kink protection at one end and a Y-connector at the other end).

The terminal devices are fitted with appropriate device sockets on the outside. In this way you can set up a network connection without having to open any device.

The cable gland is connected to the cable shell and can be used as a cable pull up to a maximum force of 600 N.

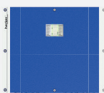
SWITCH FEATURES	DESCRIPTION
Forwarding	- Configurable ports for switching or routing - Full non-blocking wirespeed switching - Up to 16k MAC entries - All Forwarding Databases support IVL and SVL - Jumbo frame support (4064 Bytes) - IGMP Snooping support
Redundancy	Spanning tree (STP), rapid spanning tree (RSTP) protocol for redundant fibre networks
Mirroring	Various types of mirroring: - Port based mirroring - VLAN based mirroring - MAC based mirroring
VLAN	- Fully compatible with IEEE802.1Q and IEEE802.1ad VLAN 4k active VLANs - Flexible VLAN assignment (Port, Protocol, MAC based): - From any to any VLAN translation and swapping 1:1 VLAN switching - VLAN to port mapping - VLAN filtering
Port Isolation and Leakage	- Applicable for Private VLAN implementation 3 port profile types: Promiscuous, Isolated and Community - Up to 28 Community profiles - Leakage profiles allow bypassing egress VLAN filtering
Trunking	- Supports static link aggregation groups - Up to 8 Port Trunk groups - Up to 8 member ports per Port Trunk group - Hardware automatic failover and load balancing
Quality of Service (QoS)	- Flexible QoS classification and assignment: - Port based, MAC based, VLAN based, Protocol based - QoS remarking and remapping for QoS domain translation between service provider and client networks - Overriding of each QoS assignment according to the configured priority
Shaping and Scheduling	8 queues on each physical port - Shaping per port, per queue, per queue group
Access Control List	- Ingress and Egress ACL tables - Up to 128 ACL rules (limited by RouterOS) - Classification based on ports, L2, L3, L4 protocol header fields - ACL actions include filtering, forwarding and modifying of the protocol header fields

TECHNICAL DATA



Intrinsic safety
 ATEX: 20ATEX0012X
 IECEx: IECExKDB20.0002

TECHNICAL DATA	WRAP 260.300 SWITCH 5 X GBIT	WRAP 260.400 SWITCH 10 X GBIT	WRAP 260.500 GATEWAY-SWITCH 5 X GBIT, 3 X 100MBIT
Mechanical Parameters	Approx. 310 x 230 x 106 mm	Approx. 310 x 420 x 106 mm	Approx. 310 x 230 x 106 mm
Power requirements	Max. 9.5 W	Max. 19 W	Max. 16 W
Ingress protection	IP67	IP65	IP67
Weight	Approx. 7,5 kg	Approx. 16 kg	Approx. 8 kg
Ambient Temperature	-20 °C to 40 °C		
Fibre optic:			
Optical power	Output power up to -3 dBm, Input power max. 0dBm, input optical sensitivity -24dBm		
Optical characteristics	1310 nm single mode, 9/125 µm fibre		
Laser Class	Class 1, complies with EN 60825-1		
Range	Up to 20km		

DESIGNATION	REF	ILLUSTRATION
WRAP260.300 Single Ethernet Switch 5xGBit ports	1000021155	
WRAP260.400 Double Ethernet Switch 10xGBit ports	1000021156	
WRAP260.500 Gateway Switch 5xGBit, 3x100MBit ports	1000021157	
BOS-CMKK2 Cables Fibre optic device cables 1m - 1000m	on request	
Power Supply MPSD ia Power Supply 14.5V/1.5A	on request	
Battery Backup Power Supply MPSU ia Power Supply 14.5V/1.5A	on request	



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