

Switch Software

HiOS – Hirschmann Operating System

HiOS is the latest operating system for the new generation of Industrial Ethernet devices, combining high performance with robust security. It provides the user with precise time synchronization, extensive redundancy mechanisms and diagnostic tools. With zero switchover time, the PRP (Parallel Redundancy Protocol) and HSR (High-Availability Seamless Redundancy) redundancy methods ensure smooth production processes. Comprehensive security mechanisms protect networks against attacks and operating errors.

- Layer 2 Embedded (L2E): Suitable for EES switches
- Layer 2 Standard (L2S): Suitable for the switch families RED, RSP, RSPL, RSPE, GREYHOUND and OCTOPUS II
- Layer 2 Advanced (L2A): Suitable for the switch families MSP, RSP, RSPE, GREYHOUND 1040 and OCTOPUS II
- Layer 3 Standard (L3S): Suitable for the switch families RSP, RSPE and OCTOPUS II
- Layer 3 Advanced (L3A): Suitable for the MSP- and GREYHOUND1040 switches



Classic Switch Software

The Classic Switch Software provides a range of functions normally found in backbone systems used in office networks. This includes comprehensive management, diagnostics and filter functions, various redundancy features, security mechanisms and real-time applications.

- Layer 2 Basic (L2B): Suitable for the switch family RSB20
- Layer 2 Enhanced (L2E): Suitable for the RS20/RS30/RS40-, MS20/MS30- and OCTOPUS switches
- Layer 2 Professional (L2P): Suitable for the switch families RS20/RS30/RS40, MS20/MS30, OCTOPUS, PowerMICE, RSR20/RSR30, MACH100, MACH1000 and MACH4000
- Layer 3 Enhanced (L3E): Suitable for the PowerMICE- and MACH4000 switches
- Layer 3 Professional (L3P): Suitable for the switch families PowerMICE, MACH104, MACH1040 and MACH4000



NOTE: For the latest software functionalit overview please visit our website at: www.hirschmann.com/en/Software



Diagnostics
Management Address Conflict Detection
Address Relearn Detection
LEDs
MAC Notification
Signal Contact
Device Status Indication
TCPDump
Email Notification
Syslog
Persistent Logging on ACA
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
Port Mirroring N:2
VLAN Mirroring
RSPAN
SFLOW
Copper Cable Test
System Information
Self-Tests on Cold Start
SFP Management
Configuration Check Dialog
Switch Dump
Snapshot Configuration Feature

Classic Switch Software v9.0				
L2B	L2E	L2P	L3E	L3P
		●	●	●
	●	●	●	●
●	●	●	●	●
		●	●	●
●	●	●	●	●
●	●	●	●	●
		●	●	●
	●	●	●	●
		●	●	●
		●	●	●
	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●*		●*
		●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●

HiOS Hirschmann Operating System v7.0				
L2E	L2S	L2A	L3S	L3A
●	●	●	●	●
●	●	●	●	●
●*	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●*	●*	●*	●	●*
		●	●	●
		●	●	●
●*	●*	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●

Miscellaneous
Digital IO Management
PoE (802.3AF)
PoE+ (802.3AT)
PoE+ Manual Power Management
PoE Fast Startup
Port Power Down
Manual Cable Crossing

Classic Switch Software v9.0				
L2B	L2E	L2P	L3E	L3P
●*	●*	●*	●*	●*
	●*	●*	●*	●*
		●*		●*
		●*		●*
		●*		●*
		●*		●*
●	●	●	●	●

HiOS Hirschmann Operating System v7.0				
L2E	L2S	L2A	L3S	L3A
		●*		●*
	●*	●*	●*	●*
	●*	●*	●*	●*
	●*	●*	●*	●*
	●*	●*	●*	●*
●	●	●	●	●
●	●	●	●	●

* Hardware dependent