

PRODUCT

The Hirschmann BOBCAT Switches offer enhanced flexibility and interoperability for simple maintenance and future-proof network operation. With several variants, including high-port options, the switches meet a variety of industrial automation requirements, especially for applications in need of high bandwidth, embedded power, advanced security and precise, real-time communication.

PROBLEM BEING

With the IIoT and an increase of connected devices comes a rising demand for more bandwidth, higher speeds, seamless transition of legacy networks to TSN, and the utmost security – while taking up less space and lowering total cost of ownership.

SOLUTION

The Hirschmann BOBCAT Switches offer a high-performing, secure solution for next-generation IIoT networks housed within a compact, rugged design.

DESIGNED FOR

- High-port density with up to 24 ports in a compact housing
- Maximum power output up to 240 W across 8 PoE/PoE+ ports without load sharing
- Simultaneous network service support and deterministic communication through TSN technology
- Increased bandwidth capabilities with adjustable fiber SFP slots up to 2.5 Gigabits

VALUABLE TO

- Powerful solution in a compact design
- Several product variants provide customers with features they need for their specific application
- Robust industrial design for extreme environmental conditions
- Advanced security features, including wire-speed access control lists and automatic denial-of-service
- A future-proof investment to support continued network growth

COMPETITIVE

- **Future-Proof:** No competitor is able to offer TSN on more ports, enabling large networks in the future
- **Flexible:** Offers more Gigabit ports than any other manufacturer in a compact railswitch
- **Reliable:** HIOS software with free updates offers a large set of configurable redundancy and security features
- **Built to Last:** Designed with higher protection (IP40 rating) for industrial environments

APPLICATIONS

Factory Automation • Material Handling • Intelligent Traffic Systems

- Real-time communication, advanced security, low latency, and the simultaneous synchronization of data and information to control operations
- High-port density options to support a growing number of network devices
- PoE option to power the growing demand of energy-hungry devices, such as pan-tilt-zoom cameras or wireless access points
- Trackside approval according to EN50121 to deploy in transportation applications and mass transit

WHO TO TARGET

- Engineers
- System Integrators
- Machine Builders

FEATURES

Customer Pain Points	Solved Through	Product Features
Growing number of connected network devices	Increased bandwidth and high-speed data transfer	<ul style="list-style-type: none"> • Up to 24 ports within a single switch • Adjustable tri-speed fiber SFP slots with 100 Mbit/s, 1 Gbit/s and 2.5 Gbit/s speeds (requiring no change to the appliance)
Growing demand of energy-hungry devices	Embedded Power over Ethernet (PoE) for cost-effective, maximum power output	<ul style="list-style-type: none"> • 8 PoE/PoE+ ports supporting up to 240 W total power without load sharing • Power supply options (24 or 48/54 VDC)
Increased security risk	Advanced security functionality limits access to equipment and the network	<ul style="list-style-type: none"> • IEEE 802.1x port-based access control • Automatic denial-of-service prevention • Varying privilege levels and configurable password policies • Security status monitor and audit trails
Delivery of critical real-time information	Deterministic communication (e.g. signaling and energy flow)	<ul style="list-style-type: none"> • TSN-ready • Approved for use in transportation (EN50121), substations (IEC61850) and hazardous locations
Network availability	Broad set of redundancy mechanisms	<ul style="list-style-type: none"> • Layer 2 redundancy protocols • Diagnostic features
Harsh environments	Robust industrial design	<ul style="list-style-type: none"> • Housings with IP20, IP30 and IP40 rating available • Wide temperature range (-40°C to +70°C)

SECOND BEST

Cisco, Siemens and Moxa have competitive Industrial Ethernet and Managed Layer 2 Switches, but none can offer 2.5 GE uplink ports. Cisco is more expensive, despite its limited port count (only 20). While Siemens and Moxa offer 24 ports, they don't offer TSN support and have limited security features.

SELECTION OF POPULAR PART NUMBERS AND PRODUCT CONFIGURATIONS

Part Number	Type	Product Description
942 170-004	BRS20-8TX/2FX	8 x FE TX, 2 x FE FX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-007	BRS30-8TX/4SFP	4 x Gig SFP, 8 x FE TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-008	BRS40-8TX	8 x Gig TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-009	BRS40-8TX/4SFP	4 x Gig SFP, 8 x Gig TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-010	BRS50-8TX/4SFP	4 x 2.5 Gig SFP, 8 x Gig TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-048	BRS32-8TX/4SFP	4 x Gig SFP, 8 x FE TX, 48/54 V DC, 0 °C to +60 °C, PoE+, HiOS L2S
942 170-046	BRS42-8TX/4SFP	4 x Gig SFP, 8 x Gig TX, 48/54 V DC, 0 °C to +60 °C, PoE+, HiOS L2S
942 170-045	BRS52-8TX/4SFP	4 x 2.5 Gig SFP, 8 x Gig TX, 48/54 V DC, 0 °C to +60 °C, PoE+, HiOS L2S
942 170-059	BRS30-16TX/4SFP	4 x Gig SFP, 16 x FE TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-063	BRS40-16TX	16 x Gig TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-065	BRS40-16TX/4SFP	4 x Gig SFP, 16 x Gig TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S
942 170-071	BRS50-20TX/4SFP	4 x 2.5 Gig SFP, 20 x Gig TX, 12-24 V DC, 0 °C to +60 °C, HiOS L2S



Industrial Communication Products Ltd

Tel: +44(0) 203 086 9569

Web: www.industrialcomms.com

Email: sales@industrialcomms.com

