Hi-SCOM

Hi-Scom Managed Full GIGA POE/POE+ Switch

Compatible with Hirschmann Industrial Hivision Management Platform

PRODUCT BULLETIN

Key Features

- Ring technology delivers redundancy bandwidth for critical services and 50ms protection switching
- Hirschmann Industrial Hivision software for easy configuration and management of large networks
- Full Gigabit design for high bandwidth application
- Full POE/POE+ design to power up applications
- Variety of interface and port types to ensure flexibility and seamless integration of CCTV applications

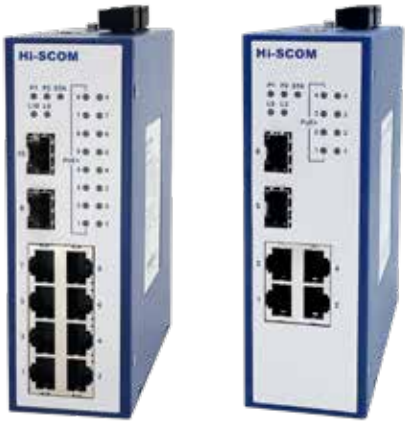
BN44/BN48 Series Industrial full Gigabit Managed 6/1 O Ports Ethernet Switch

The BN44/BN48 Series industrial full Gigabit managed 6/10 ports Ethernet switch with up to 8 x 10/100/1000 Mbit/s PoE (IEEE 802.3af/ at) ports, and 2 x 1000 Mbit/s SFP ports, 4Mbits memory, and supports static Layer 3 routing, a full Gigabit network provides higher throughput than legacy Fast Ethernet networks (10/100 Mbit/s).

The BN44/BN48 Series switches can provide power and data directly through Ethernet cable, ideal for CCTV, ITS and building automation related applications

Benefits at a Glance

- **Strong data transmission and POE performance** with full Gigabit and POE/ POE+ interface and ports and max. power consumption 30 W per port
- **Ensure reliability and stability of data transmission** with -40°C up to +75°C (extend operating temperature and redundant power supply unit
- **Easily configure and manage complex networks** with intuitive provisioning software



BN3049 Series Industrial full Gigabit Managed 26-port Ethernet Switch

The BN3049 Series industrial full Gigabit managed 26-port Ethernet switch with up to 24 x 10/100/1000 Mbit/s PoE (IEEE 802.3af/at) ports (including 4 combo ports), and 2 x 1000 Mbit/s SFP ports, 4 Mbit/s memory, and supports static Layer 3 routing.

With a total switch fabric of 58 Gbit/s, the BN3049 can handle large amounts of data linking to an industrial backbone or high-capacity servers, and has capability of providing wire-speed throughput in the temperature range from -25°C up to +65°C degree Celsius without any packet loss and CRC error. It greatly simplifies the tasks of upgrading the industrial network for catering to increasing bandwidth demands

Major Markets for CCTV Surveillance

Commercial Buildings

- Bank and Finance
- Offices
- Government

Railways

- Indoor surveillance in railway stations and trains
- Outdoor surveillance on railway platforms and railway tracks

Traffic Monitoring

- Tunnels
- Highways

Energy Utilities

Healthcare

Data Centers

Hotels & Casinos

Process Facilities

- Mining
- Utility Tunnel
- O&G
- Metals & Minerals
- Chemicals
- Paper & Pulp

Airports

- Indoor video surveillance in airport terminals
- Outdoor perimeter protection

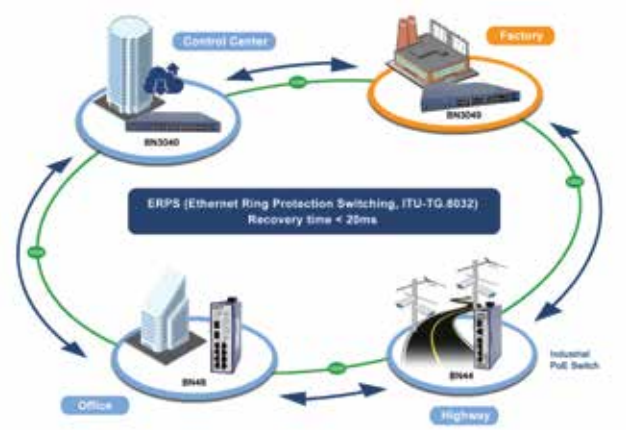
Discrete Manufacturing

- Machine Building
- Automotive
- F&B
- General Mfg
- Seaports

City Surveillance

Education

The BN44/BN48 and BN3049 series switches support multiple redundant ring technologies and features strong, rapid self-recovery capability to prevent interruptions. Both BN44/BN48 and BN3049 incorporate advanced ERPS (ITU-TG.8032, Ethernet Ring Protection Switching) technology, Multiple Spanning Tree Protocol (802. Is MSTP) and redundant power input into industrial automation network to enhance system reliability in harsh factory environments. In a simple ring network, the recovery time of data link can be as fast as 20ms.



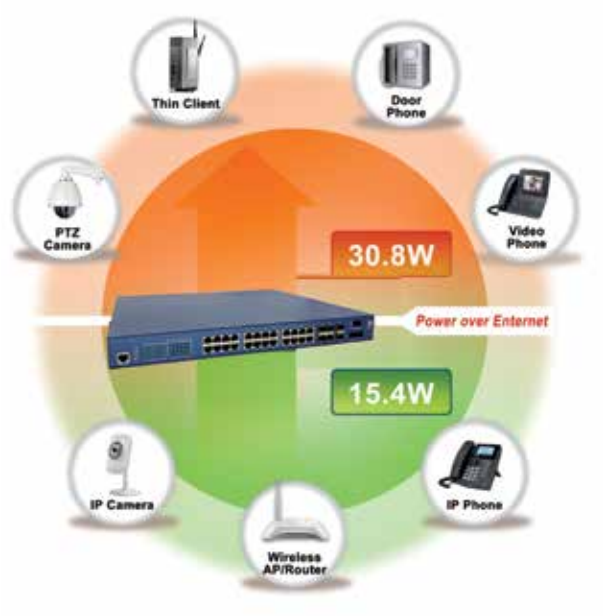
ERPS(Ethernet Ring Protection Switching, ITU-TG.8032) Recovery time < 20ms

To fulfill the demand of high power PoE for network applications with Gigabit speed transmission under wide temperature range, BN44/BN48 and BN3049 provide 4/8/24 x 10/100/1000 Mbit/s ports featuring IEEE 802.3at (PoE+), that combines up to 370 Watt power output, fully meet the growing demand of higher power consuming network PDs (powered devices) such as PTZ network cameras, multi-channel (802.11a/b/g/n/ac) wireless LAN access points, etc.

The BN44/BN48 and BN3049 series switches support advanced switch management functions, such as link aggregation, VLAN, Rapid Spanning Tree Protocol, Layer 2 to Layer 3 QoS, bandwidth control and IGMP snooping

The BN44/BN48 and BN3049 series switches not only provide excellent Layer 2 switching features, but also IPv4/v6 software VLAN routing feature which allows to crossover different VLANs and different IP network for the purpose of having a highly-secured, flexible management.

The BN44/BN48 and BN3049 series switches are equipped with console, Web and SNMP management interfaces. The command line interface can be accessed via Telnet, SSH and the console port. Moreover, they also offer secure remote management via any standard-based management software by supporting SNMPv3 connection which encrypts the packet content at each session.



The BN44/BN48 and BN3049 series switches offer comprehensive Layer 2 to Layer 4 Access Control List (ACL) for enforcing security to the edge. They can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP port s. Their protection mechanism also comprises 802.1X port-based and MAC-based user and device authentication. With the private VLAN function, communication between edge ports can be prevented to ensure user privacy.

Technical Information

Product Description

Port Type and Quantity	**6 Ports in total; 4 x 10/100/1000 BASE-TX, RJ45 PoE+ ports; 2 x Gigabit SFP slots**	**10 Ports in total; 8 x 10/100/1000 BASE-TX, RJ45 PoE+ ports; 2 x Gigabit SFP slots**	**26 Ports in total; 20 x 10/100/1000 BASE-TX, RJ45 PoE+ ports; 4 x Gigabit Combo ports (10/100/1000 BASET- X, RJ45 PoE+ or 1000 BASE, SFP), 2 x Gigabit SFP slots**
Type	BN44-00060606TCMS	BN48-0010O6O6TCMSB	BN3049-204C20TTM9MS
Order No.	942 999-910	942 999-938	942 289-001
Number of Interface			
Power Supply	1 X 4-pin		1 X 3-pin
Console Interface	1 x RJ45 socket, serial interface I device configuration (RS-232, 115200bps-8-N-1)		
Network Size - cascadibility			
Line/Star/Ring Topology	Any		
Power Requirements			
Operating Voltage	48VDC		110/220 V AC (90 - 264 V)
Total PoE Power Budget	Output: 120 W (Max)	Output: 240 W (Max)	Output: 370 w (Max) @ 48 VDC
Software			
Management	Serial interface, Web-interface, HTTP/HTTPS, Telnet, SSH, SNMPv1/v2/v3, Traps, LLDP,LLDP-MED		
Diagnostics	LED, Syslog, Port mirroring (1:1, N:1), AMON (1, 2, 3, 9), Loop protection, sFlow		
Configuration	CLI - Console port/Telnet, Web based management, Full featured MIB support, DHCPv4 Client/ Server/Snooping /Relay,DHCPv6 Client		
Security	User password protection, Privilege levels, NAS (IEEE802.1 x), AGL, IP Source Guard, ARP Inspection, RADIUS, TACACS+		
Redundancy functions	STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s), ERPS (G.8032), Link Aggregation Static, LACP		
Filter	QoS (4 classes), CoS, TOS/DSCP, port priority (IEEE 802.1Dip), VLAN (IEEE 802.1Q), IGMP snooping, MLD Snooping, Storm Control		
Time Synchronization	SNTP Client		
PoE Management	IEEE 802.3aUaf, PoE power management ,PoE device auto-checking, PoE diagnostic		
Ambient Conditions			
Operating Temperature	-40°C — +70°C		-25°C — +65°C
Storage/Transport Temperature	-40°C — +85°C		
Relative Humidity (non-condensing)	5% - 95%		
Conformal Coating	Yes (dependent on device variant)		
Mechanical Construction			
Dimensions (W*H*D)	64x144x130mm	64x144x130mm	440x44.5x350mm
Mounting	DIN Rail		19" control cabinet
Protection Class	IP30		
EMC Interference Immunity			
EN 61000-4-3	6 kV contact discharge,8 kV air discharge		
EN 61000-4-3 electromagnetic field	10 Vim (80 - 1000 MHz)		
EN 61000-4-4 fast transients	2 kV power line,1 kV data line		
EN 61000-4-5 surge voltage	Power line: 2 kV (line/earth), 1 kV(line/line); 1 kV data line		
EN 61000-4-6 conducted immunity	10 V (150 kHz - 80 MHz)		
EMC Emitted Immunity			
FC CFR47 Part15	FCC CFR47 Part 15 Class A		
EN 55022	EN 55022 Class A		
Packing List			
Scope of Delivery	Device, terminal blocks, operating manual		
Warranty			
Warranty	2 years		