➤ Support 4*10/100/1000Base-TX POE port and 2*Gigabit SFP Port and 1 Console Port.

➤ Support:IEEE802.3,IEEE802.3u,IEEE802.3x,IEEE802.3z/ab,IEEE802.1Q,IEEE802.1p, IEEE802.1D/W, IEEE802.3bt (60W, 90W).

➤ Support Spanning Tree STP(802.1D) and RSTP(802.1W). 802.1s (MSTP,ERPS); Support PoE Management,SNMP v1/v2/v3.

➤ Support IGMP Snooping,Static Multicast filtering and MLD Snooping filtering; Support 802.1x port authentication and 3A authentication to Enhance Network Security.

➤ Support WEB,Telnet,CLI,SSH Management; IP40 protect grade, high strength Aluminum Case, DIN35 Rail installation.

➤ Industrial grade 4 design, -40 to 85℃ working temperature.

➤ Support redundant power supply access, anti-reverse connection

➤ Port Lightning Protection: General Mode 6KV, Differential Mode 4KV, ESD 15KV.

➤ Support comply with EMC EN55032 Standard

➤ PD Alive Check (WatchDog)

● Product Description

The HR600-BTGM-42S Industrial PoE Switch, it support 4*10/100/1000Base-TX POE Ports and 2*Gigabit SFP Ports. These converters are classified as power source equipment (PSE), and when used in this way provide up to 60W/90W to IEEE802.3bt compliant powered devices (PD), eliminating the need for additional wiring. It provided some kinds of advanced network managed function, like as: Ring redundancy Ring-Network, VLAN, Trunking, Quality of Service, Speed control, port mirroring, fault alarm and firmware upgrade online. SW-Ring can bring your Ethernet to intelligent redundancy. Standard Industry design, can satisfied every requirement of the industry scene. All components used industry grade, it takes products high reliability. It provided wide voltage power supply input.

It support CE, FCC ROHS standard, adopt industry standard design, IP40 protection, rugged high-strength metal case, Dual power supply input (DC48-55V), -40 to 85°C working temperature. The converters support IEEE802.3/IEEE802.3i/IEEE802.3uIEEE802.3ab/IEEE802.3z with 10/100/1000M, full/half-duplex, and MDI/MDI-X auto-sensing, providing a complete solution for your Industrial Ethernet Network.
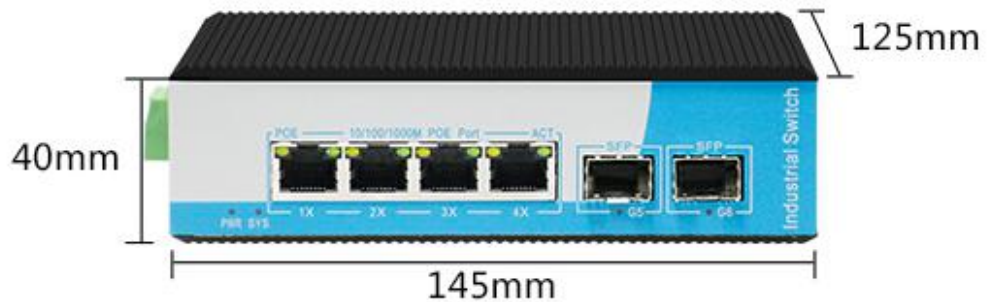
● Target industries

1.HD monitor transmission and power supply

2.Wireless AP layout transmission and power supply

3.Network telephone transmission , intelligent house and home system

4.Intelligent transportation supervisory system (ITS)

5. High-speed Way supervisory/ Tele-Communication System

6. Security protection system, TV medical treatment

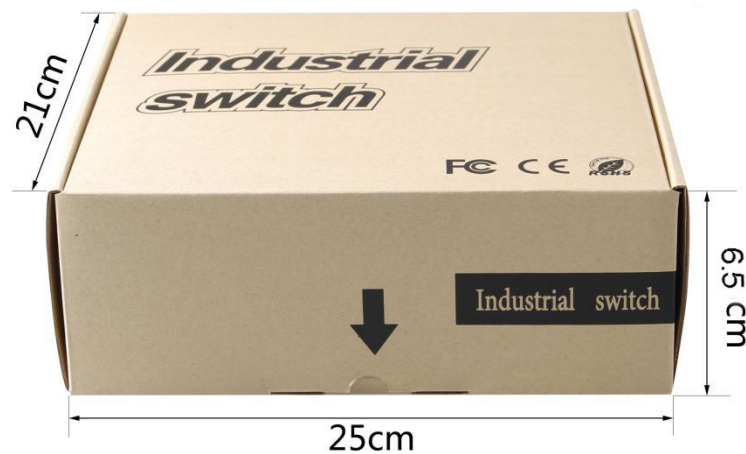7.High-building Security Protection, Military Tele-Com project

● Physical Pic Reference

● Dimension(145mm*125mm*40mm,Net Weight:0.409kg/unit

● Package Dimension(175mm*130mm*55mm,Gross Weight:0.489kg/unit

Shenzhen Hong Rui Optical Technology Co., Ltd

6 ports Gigabit Managed Industrial PoE Switch

⬤ Order Information

Product Model: HR600-BTGM-42S

Product Description: 6-port 10/100/1000M Industrial PoE Switch, with 4*RJ45 Ports and 2*Gigabit SFP Ports, 1*Console Port. 4*RJ45 ports support PoE power supply function, compatible with both IEEE802.3af, IEEE802.3at, IEEE802.3bt Standard. Managed , Ring-Network transmission, Rail-type installation.
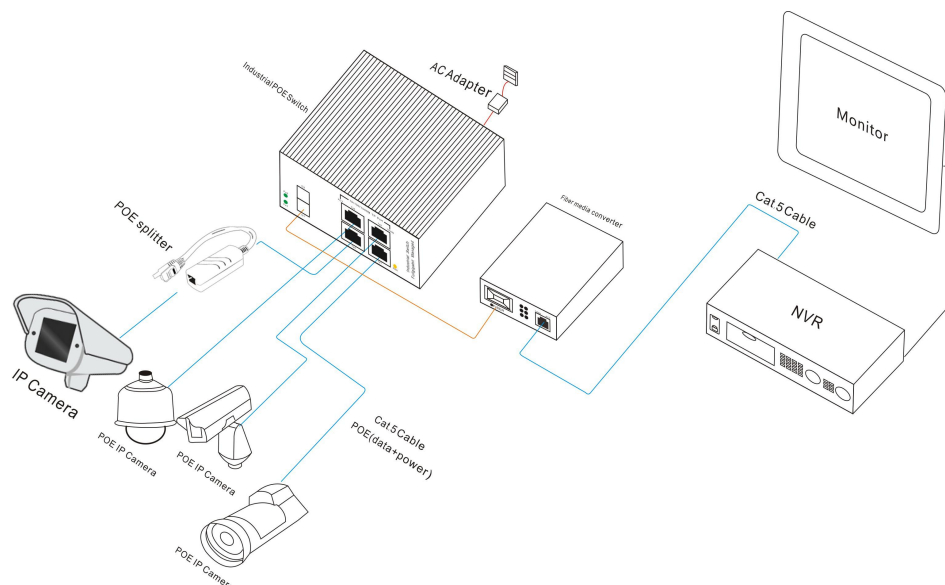
Note: Power adapter & SFP module is not included in this package. Please order it separately.

Accessories in the Package:

Package List	Industrial PoE Switch (plus terminal block) 1PCS
	User Guide 1PCS
	Warranty Card 1PCS
	DIN-Rail mounting kit 1PCS

⬤ Physical Application Reference

⬤ Technical parameters

Product Name	6 ports Gigabit Managed Industrial PoE Switch
Product Model	HR600-BTGM-42S
Interface	4 x10/100/1000M copper RJ-45 ports, 2 x1000M SFP port ,1x Console
Network Protocols	Support IEEE802.3,IEEE802.3u,IEEE802.3z, IEEE802.3ab, IEEE802.3x, IEEE802.1d, IEEE802.1w
L2（Layer 2 Switching）	
Port management	Enable / disable port Speed, duplex, MTU settings, etc. Flow-control flow control setup Support port mirroring Support port access direction, VLAN image To support the port speed limit, Support port isolation settings Unknown unicast, multicast, broadcast storm suppression PD Alive Check (WatchDog)
Spanning Tree Protocol	Standard Spanning Tree (STP) 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
Ring Network Protocol	ERPS
Link Aggregation	Support static manual aggregation, Support LACP dynamic convergence IEEE 802.3ad
VLAN	Support Port based VLAN and IEEE 802.1Q VLAN
IGMP　snooping	Support static add / delete, Support v1/2/3 dynamic multicast listener
GMRP	supports GARP multicast registration protocol
MAC	Support static add / delete MAC address learning limit Support dynamic aging time settings
L3（Layer 3 Switching）and Router Function	
Interface configuration	Support virtual VLAN interface
ARP	Support check ARP
Router function	Static router
Extended Function	
ACL	based on the source MAC, destination MAC, protocol type, source IP, destination IP, L4 port number Support time-range time management
	based on 802.1p (COS) classification Based on DSCP classification

QOS	Based on the source IP, destination IP, port number classification
	Support SP, WRR, DRR scheduling strategy
	Support traffic speed limit CAR
LLDP	supports LLDP link discovery protocol
Log	User login, operation, status, event log
User setting	Support add/delete user
Prevent attack	DOS defense
	Support for CPU protection, limited to send CPU message rate
	ARP binding (IP, MAC, PORT binding)
system management	User add / delete user
	User login, operation, status, event log
	Device reset, configuration save / restore, upgrade management, time setting, etc.

Management Function	
CLI	support serial command line management
TELNET	support serial command line management
SSH	supports SSHv1/2 remote management
SNMP	support v1/2/3
	ColdStart, WarmStart, LinkDown, LinkUp
WEB	supports two layers, three layers of view, etc.
POE	POE Management

Other Parameters	
PoE Specification	PoE Standard: Supports both IEEE802.3af and IEEE802.3at
	Single PoE Port Power Output: Max. 15.4 watts (IEEE 802.3AF) Max. 30 watts (IEEE 802.3AT) Max. 60/90 watts (IEEE 802.3BT)
	PoE port Auto detect AF/AT/BT devices
	PoE Port Output Voltage: DC48V (BT:12- 36+;45+ 78-)
Network Media	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-TX: Cat6 or later UTP(≤100 meter)
Fiber Media	Multi-mode: 1310nm, 2Km Single-mode: 1310nm, 20; 1550nm, 60/80/100/120Km
Performance Specification	Bandwidth: 24Gbps Packet Buffer Memory:2M Packet Forwarding Rate:1488000pps/port Address Table: 8K MTBF:100,000 hours
Forwarding Mode	Store-And-Forward
LED Display	Fiber Run indicator: G5,G6 Power supply indicator: PWR System indicator:SYS

	PoE ACT indicator: LED-Yellow 1000M LINK indicator: LED-Green
Power Supply	Input Voltage: DC48V (48～55V) Type of input: 4 pins terminal block (V1+ V1- V2+ V2-) DC52V1.25A/DC52V2.5A for optional
Working Environment	Working temperature: -40～85℃ Relative Humidity: 5%~95 %(no condensation)
Industry Standard	EMI: FCC Part 15, CISPR (EN55032) class A EMS: EN61000-4-2 (ESD) EN61000-4-4 (EFT) EN61000-4-5 (Surge) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Mechanical Structure	Shell: IP40 protect grade, metal shell Installation: DIN-Rail or Wall mounts Product weight: 0.5KG Package:0.77KG (without Power Adapter) Product size(L*W*H):145mm*125mm*40mm Packaging size(L*W*H): 250mm*210mm*65mm
Certification	CE mark, commercial FCC Part 15 Class B VCCI Class B EN 55022 (CISPR 22), Class B
Warranty	5 years