BCDVIDEO™

BCD-RGD-804P-MT

Data Sheet

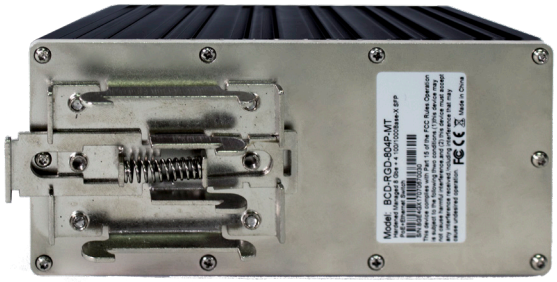
Environmentally Hardened Switches

Rigid Networking Series

The Rigid Networking Series provides an environmentally hardened networking solution to the video surveillance market. As a rugged switch, they can handle extreme temperature ranges from -40°F to 167°F (-40°C to 75°C). The fault-tolerant network protects the system from downtime resulting in loss prevention and stability. PoE offers centralized power management for each device. These network switches enable networks to be designed to meet the demands of the market. They are purpose built for mobile use and extreme temperature environments.

KEY FEATURES

- **Port Density: 12 Ports**
- **Environmentally Hardened**
- **Fully Managed**
- **40°F to 167°F (-40°C to 75°C)**
- **5-Year Warranty**



SYSTEM	
RJ45 Ports	(8) Gigabit Ports PoE+
Optical Ports	(4) SFP 1000Base-X
Auto-Negotiation	10/100/1000Mbps-Full/Half-duplex Auto MDI/MDI-X
Multicast	Supported
IGMP	V1/V2/V3 up to 256 groups
Broadcast Storm Control	Supported
Power Failure Protection	Relay Output
Command Configurations	Web GUI, Serial Console, CLIv
Network Redundancy	G.8032 ERPS, RSTP, MST
Port Naming	Capable
Redundant Power	Capable

FOR MORE INFORMATION: bcdvideo.com | sales@bcdvideo.com | +1.847.205.1922 **TECH SUPPORT:** support@bcdvideo.com | +1.844.462.2384

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ELECTRICAL/MECHANICAL					
Redundant Power Input	Terminals (6-Pin) Note: Power supply not included.				
Power Input Overload	Automatic Resettable				
Overload Current Protection	Yes				
Reverse Polarity Protecdtion	Yes				
Input Voltage Range	48-55 VDC				
Power Status	Power 1, Power 2, Fault				
Ethernet (per port)	LINK/Activity				
SFP	LINK/Activity				
PoE (Power Supply to PD)	**Budget**	**Standard**	**Max Power (per port)**	**PSE Type**	**Power Pin Assignment**
	240W	IEEE802.3at	30W	End-Span	1/2 (+), 3/6 (-)
Mounting Options	DIN Rail or Wall-Mount				
Enclosure	IP40 Metal Case				
Dimensions (WxDxH)	2.68" (68mm) x 4.04" (102.5mm) x 5.75" (146mm)				
Max Weight	1.98 lbs. (.9kg)				
ETHERNET					
Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3u 100Base-FX IEEE802.3z 1000Base-X IEEE802.3af/at Power over Ethernet IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) ITU-T G.8032 / Y.1344 ERPS (Ethernet Ring Protection Switch) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.1ad Stacked VLAN, Q-in-Q IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.3x flow control, back pressure flow control				
Proocessing Type	Store-and-Forward				
Switch Performance	24 Gbps				
Forward Filter Rate	1.488 Mpps (max)				
Frame Buffer Memory	4 Mbit				
Packet Buffer Memory	4 MBit				
Max. Packet Length	9.6 Kilobytes Jumbo Frame				
Address Table Size	8K MAC addresses				
ENVIRONMENTAL					
Operating Temperature	-40°F to 167°F (-40°C to 75°C)				
Storage Temperature	-40°F to 185°F (-40°C to 85°C)				
Operating Humidity	5 ~ 90% (non-condensing)				
MTBF	+200,000 hours				
REGULATORY APPROVALS					
ISO9001, CE, FCC, RoHS EMI FCC Part 15 Subpart B Class A EN55022:2010+AC: 2011, Class A EMS IEC 61000-4-2: 2008 (ESD) IEC 61000-4-3: 2010 (RS) IEC 61000-4-4: 2012 (EFT) IEC 61000-4-5: 2014 (Surge) IEC 61000-4-6: 2013 (CS) IEC 61000-4-8: 2009 (PFMF) Free Fall IEC60068-2-32 Shock IEC60068-2-27 Vibration IEC60068-2-6					

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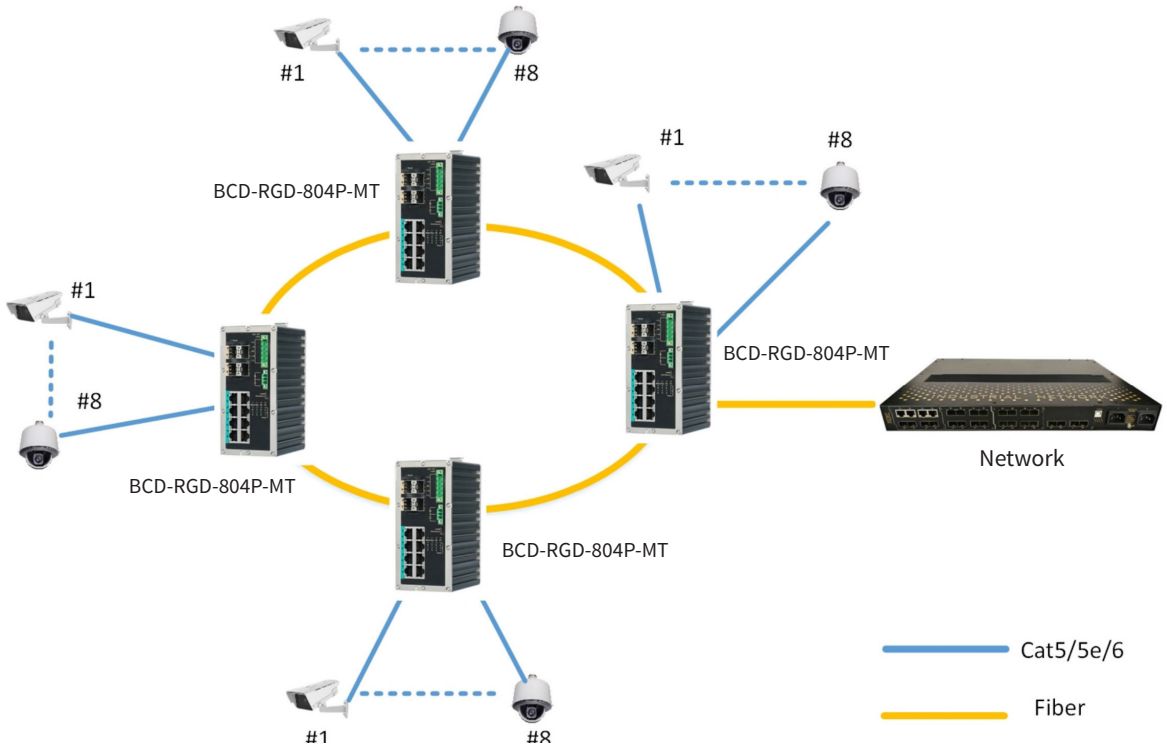
SOFTWARE	
Network Redundancy	STP/RSTP/MSTP, Port Trunk with LACP, ERPS (<50ms)
Configuration	Web-base, Telnet, Console, Cisco-like CLI, TFTP, SSH, SSL, SNMP v1/v2c/v3, RMON, USB
Security Features	MAC based port security, static MAC address Access Control List(ACL), 802.1X authentication, RADIUS SNMP v3 encrypted authentication and access
Software Features	Qos-Cos, ToS/Diffserv mapping, SPQ/WRR queuing 802.1Q VLAN and 802.1ad Q-in-Q provider bridge IGMP/MLD Snooping, IGMP/MLD query DHCP Client/Server/Relay with Option 82 Internet Protocol Version 6 (IPv6) Port Status, Statistics, Monitoring, Security, and Rate Limiting, SFP DDM PoE Status, Monitoring, Ping Alarm, Scheduling Port Mirror, uPnP, Modbus/TCP

Typical System Configuration



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