



DPCOM6000-BD04080000 DIN-Rail Industrial Switches



- ◆ 4 Gigabit SFP and 8 10/100/1000 Base-TX ports
- ◆ DPRing (recovery time < 5ms @ 250 switches), RSTP/ STP, and MSTP for network redundancy
- ◆ 52 Gbps Non-Blocking, switch backplane 16K MAC address table
- ◆ Supports console CLI , Web, SNMP V1/V2c/V3, RMON, HTTPS, SSH for remote management
- ◆ Dual 11-60VDC power inputs
- ◆ IP41 rugged aluminum case
- ◆ -40-85°C operating temperature

DPCOM6000-BD04080000 DIN-Rail industrial Ethernet switches can be flexibly configured with multiple Gigabit and Megabyte FX/TX ports. DPCOM6000-BD04080000 series support to 4 Gigabit SFP slots, 8 10/100/1000 Base-TX ports . The backplane bandwidth is up to 52Gbps. Any two ports can establish a self-recovery ring, meanwhile, DPCOM6000-BD04080000 supports multiple independent self-recovery rings. Possible ring networks are: double optical fibers, single optical fiber, twisted-pair line or any combination of them. With hardware-based algorithm, the patented DPRing[®] technology ensures less than 5ms self-recovery time . DPCOM6000-BD04080000 also supports DPRing[®] Media Redundancy Protocol (compliant with IEC62439) and PRP/HSR (compliant with IEC62439-3).

DPCOM6000 series utilize FPGA and CPLD amic reconfiguration and replicate programming technology for high stability and reliability, various key operating parameters can be monitored locally and remotely. Advanced solution, extended industrial design, and patented technologies make DPCOM6000 one of the top choices for harsh industrial environments.

Features and Benefits

- Linear switches with high performance and flexible configuration
- Support up to 4 Gigabit SFP slots, 8 10/100/1000 Base-TX ports
- Support up to 52Gbps backplane bandwidth
- Support DPRing[®] network redundancy for < 5ms recovery time
- Support DPRing[®] Media Redundancy Protocol (compliant with IEC62439)
- Support PRP/HSR redundancy for zero recovery time (compliant with IEC62439-3)
- Any two ports can establish a self-recovery ring and support multiple independent self-recovery rings
- Support Dying gasp function and initiatively report power-down state through SNMP protocol
- Support MODBUS/UDP/SNMP remote monitoring and various mainstream OPC software
- Built-in unified MicOS real-time operating systems for all DUPO™ switches
- Dual redundant power inputs design
- IP41 protection, aluminum metal case
- Fanless, -40 to 85°C wide operating temperature range
- MTBF >1,000, 000 hours



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Technical Specifications

- IEEE 802.3 CSMA/CD method and physical layer specifications
- IEEE 802.1p Priority Queuing
- IEEE 802.1q VLAN tagging
- IEEE 802.1d Spanning Tree Algorithm
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Multiple Spanning Tree
- IEEE 802.3ac VLAN Tagging
- IEEE 802.1x Authentication
- IEEE 802.3ad Link Aggregation
- IEEE 802.3x Flow Control
- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802 Networks
- RFC 768 UDP
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 854 Telnet Client & Server
- RFC 1191 Path MTU Discovery
- RFC 1542 Bootstrap Extensions & DHCP
- RFC 1851 The ESP Triple DES Transform
- RFC 1866 HTML
- RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)
- RFC 2068 HTTP
- RFC 213 DHCP Server
- RFC 2138 RADIUS
- RFC 2139 RADIUS Accounting
- RFC 2474 DiffServ Precedence
- RFC 2597 DiffServ Assured Forwarding
- RFC 2598 DiffServ Expedited Forwarding
- RFC 2644 Directed Broadcasts
- RFC 2865 Remote Authentication Dial In User Service (RADIUS)
- RFC 3222 Forwarding Information Base (FIB)
- SSH2 Secure Shell 2
- IGMP snooping
- SNMPv1/v2/v3

**DPCOM6000-BD04080000 DIN-Rail Industrial Switches****Hardware Description**

Backplane Bandwidth:	52Gbps
CPU:	333MHz RISC
Switch Architecture:	Store-and-Forward
MAC Table Size:	16K
Packet Buffer Size:	2MB
Exchange Rate:	148, 800 pps/100M ports; 1, 488, 000 pps/1000M ports

Software Functions

Management Mode:	Web, serial port, STD-17 MIB-II, STD-58 SMIv2, STD-59 RMON, STD-62 SNMPv3, SNMPv2c, SNMPv1, RFC2668 MAU, RFC2925 Ping MIB, DUPO Private MIBs
Diagnosis Mode:	Indicator light, journal file, relay, RMON, port mirroring, TRAP
Redundancy:	DPRing [®] , HSR, PRP, MSTP, RSTP, port trunking
Time Synchronization:	IEEE1588, SNTP
Others:	4K VLANs, IPv4/IPv6 multi-cast, storm control, MC/BC protection, support Jumbo Frame

Physical Performance

MTBF:	> 1,000, 000 hours
Storage Temperature:	-40°C~ 85°C
Operating Temperature:	-40°C~ 85°C
Ambient Relative Humidity:	5% ~ 95% (non-condensing)
Dimensions (W x H x L):	79mm x 140mm x 110mm
Protection Grade:	IP41
Weight:	1.3KG (Maximum)
Power Consumption:	25W (Maximum)

Mechanical Characteristics

Vibration:	IEC 60068-2-6
Shock:	IEC 60068-2-27
Freefall:	IEC 60068-2-32
Circuit Board:	Approved by IPC

**DPCOM6000-BD04080000 DIN-Rail Industrial Switches****Electromagnetic Characteristics**

EMI:	FCC 47 CFR Part 15 Class A EN55022 Class A
EMS:	IEC (EN)61000-4-2, Class 4 IEC (EN)61000-4-3, Class 4 IEC (EN)61000-4-4, Class 4 IEC (EN)61000-4-5, Class 4 IEC (EN)61000-4-6, Class 4 IEC (EN)61000-4-9, Class 4

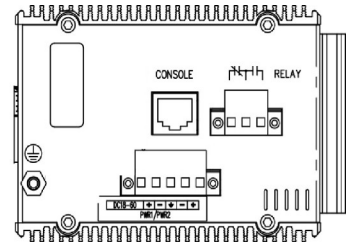
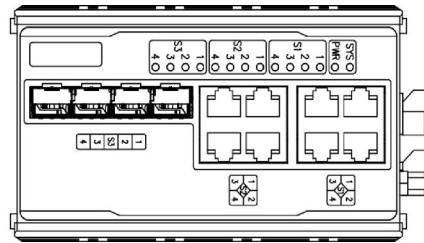
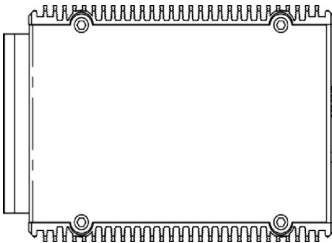
Industrial Certification and Testing

Product Safety:	CE IEC/EN60950-1 FCC Part 15 Subpart B Class A IEC/EN55022 Class A
Hazardous Area:	UL/cUL1604 Class 1 Div 2
Transportation Industry:	JT/T817-2011; NEMA-TS2
Rail Industry:	EN50155; EN61373; EN50121-3-2; EN50121-4
Transportation Industry:	NEMA-TS2
Power Industry:	IEC61850-3 IEEE1613 (C37.90.x)
Industrial Control Industry:	UL/cUL61010 (pending)
Shipbuilding Industry:	GL



DPCOM6000-BD04080000 DIN-Rail Industrial Switches

Dimensions



Accessories

SFP/XFP	Description
DPCOM-SFP-20	100M, single-mode (1310nm), LC connector, 20KM
DPCOM-SFP-40	100M, single-mode (1310/1550nm), LC connector, 40KM
DPCOM-SFP-80	100M, single-mode (1550nm), LC connector, 80KM
DPCOM-SFP-2	100M, multi-mode (850nm), LC connector, 2KM
DPCOM-SFP-2	100M, multi-mode (1310nm), LC connector, 2KM
DPCOM-SFP-20-13	100M, single fiber (1310nm TX/ 1550nm RX), LC connector, 20KM
DPCOM-SFP-20-15	100M, single fiber (1550nm TX/ 1310nm RX), LC connector, 20KM
DPCOM-SFP-40-13	100M, single fiber (1310nm TX/ 1550nm RX), LC connector, 40KM
DPCOM-SFP-40-15	100M, single fiber (1550nm TX/ 1310nm RX), LC connector, 40KM
DPCOM-GSFP-GTX	1000BASE-T SFP, RJ45 connector, 100M
DPCOM-GSFP-GTT	100/1000BASE-T SFP, RJ45 connector, 100M
DPCOM-GSFP-20	Gigabit single-mode (1310nm), LC connector, 20KM
DPCOM-GSFP-40	Gigabit, single-mode (1310/1550nm), LC connector, 40KM
DPCOM-GSFP-80	Gigabit, single-mode (1550nm), LC connector, 80KM
DPCOM-GSFP-GSX-850	Gigabit, multi-mode (850nm), LC connector, 550M
DPCOM-GSFP-GSX	Gigabit, multi-mode (1310nm), LC connector, 550KM
DPCOM-GSFP-20-13	Gigabit, single fiber (1310nm TX/ 1550nm RX), LC connector, 20KM
DPCOM-GSFP-20-15	Gigabit, single fiber (1550nm TX/ 1310nm RX), LC connector, 20KM
DPCOM-GSFP-40-13	Gigabit, single fiber (1310nm TX/ 1550nm RX), LC connector, 40KM
DPCOM-GSFP-40-15	Gigabit, single fiber (1550nm TX/ 1310nm RX), LC connector, 40KM