



Shanghai Baud Data  
Communication Co., Ltd

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Switch Series

BDCOM IES2000 Series  
Carrier-level Industrial Switch

## BDCOM IES2000 Series Carrier-level Industrial Switch

### Product Overview

BDCOM IES2000 series standard half-rack 1U-height Layer 2 switches support Gigabit multi-optical and multi-electric hybrid networking, and support redundant hybrid power supplies. For operator-level access and convergence services, BDCOM IES2000 series can solve the three major problems of network access and convergence, power supply, and clock synchronization. BDCOM IES2000 series switches support synchronous Ethernet, PTP1588V2, Dying gasp, high-power PoE power supply, which can meet the network access and back haul in various complex scenarios such as commercial buildings, transportation hubs, large-scale stores, office buildings, business outlets. BDCOM IES2000 series switches adopt the patented MRD-Ring® self-healing ring technology, and its hardware-based algorithm can ensure that the self-healing time of each node is less than 5 milliseconds, and the self-healing time of the ring network is less than 50 milliseconds (typical value).



IES2000-TU8S8T/TW8S8P



IES2000-TU12S4T

IES2000-TU8S8T: 8 Gigabit SFP ports and 8 Gigabit TX ports

IES2000-TW8S8P: 8 Gigabit SFP ports and 8 Gigabit POE ports

IES2000-TU12S4T: 12 Gigabit SFP ports and 4 Gigabit TX ports

### Product Characteristics

- Supports Sync-E.
- Supports IEEE 1588v2 Precision Time Protocol (PTP), ZTP, CCM, QinQ.
- Supports STP/EAPS/ERPS.
- Supports node self-healing time less than 5 milliseconds, and ring network self-healing time less than 50 milliseconds (typical value).
- Supports forming a self-healing ring network between any two ports, and supports multiple independent self-healing rings.

- Provides packet loss protection mechanism, which can quickly recover from network failures.
- Provides hierarchical bandwidth services by rate limiting and traffic shaping in the layer-2 QoS.
- Provides professional network management and monitoring alarm tools and supports OPC.
- Supports Dying gasp.
- Supports full scene hybrid power input.
- Operating temperature: -40°C ~85/75°C
- The mean time between failures exceeds 800,000 hours.

## Product Specifications

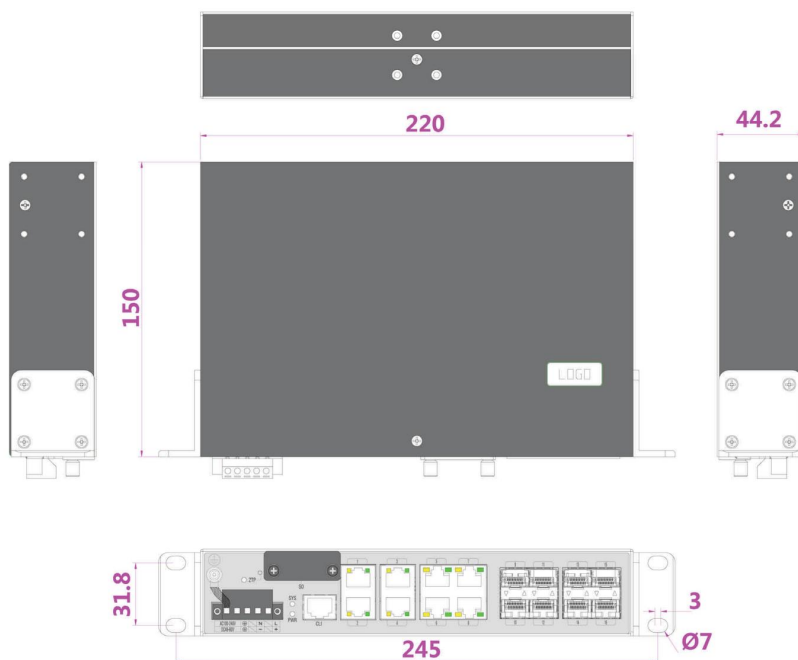
Item	IES2000-TU8S8T	IES2000-TU12S4T	IES2000-TW8S8P
Switching capacity	256Gbps		
Forwarding rate	42Mpps		
Power input	AC220V or DC48V		Dual DC 48V
POE power	/	/	240W
Operating temperature	-40~85°C	-40~85°C	-40~75°C
Precision time	IEEE 1588v2 Precision Time Protocol (PTP)		
MAC Switching	Static configuration and dynamically learning of MAC address Check and clear MAC address Configuring of MAC address aging time Limit on MAC address learning number MAC address filtering function IEEE 802.1AE MacSec		
VLAN	4K VLAN entries GVRP QinQ Private VLAN Voice VLAN		
Ring protection	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) BPDU protection, root protection and ring protection EAPS ERPS		

Multicast	<p>IGMP v1/v2/v3</p> <p>IGMP Snooping</p> <p>IGMP Fast Leave</p> <p>Multicast group policy and multicast number limit</p>
IP routing	<p>Static routing</p>
IPv6	<p>ICMPv6, DHCPv6, ACLv6, IPv6 Telnet</p> <p>IPv6 Neighbor Discovery</p> <p>Path MTU Discovery</p> <p>MLD v1/v2</p> <p>MLD Snooping</p>
DHCP	<p>DHCP Relay</p> <p>DHCP Client</p> <p>DHCP Snooping</p>
ACL	<p>L2/L3/L4 ACL</p> <p>IPv4, IPv6 ACL</p> <p>VLAN ACL</p>
QoS	<p>Traffic classification of each field of L2/L3/L4 protocol headers</p> <p>CAR traffic control</p> <p>802.1P/DSCP priority remark</p> <p>Multiple queuing algorithms such as SP, WRR or SP+WRR</p> <p>Tail-Drop, WRED</p> <p>Traffic supervision and traffic shaping</p>
Security features	<p>Identification and filtering of L2/L3/L4 based ACL</p> <p>Defend against DOS or TCP attacks</p> <p>Suppression of broadcast, multicast and unknown unicast packet</p> <p>Port isolation</p> <p>Port security, IP+MAC+port binding</p> <p>DHCP sooping, DHCP option82</p> <p>IEEE 802.1x authentication</p> <p>Radius and BDTacacs+ authentication</p> <p>Command line authority control based on user levels</p>
Reliability	<p>Static/LACP</p> <p>UDLD</p> <p>Ethernet OAM</p>

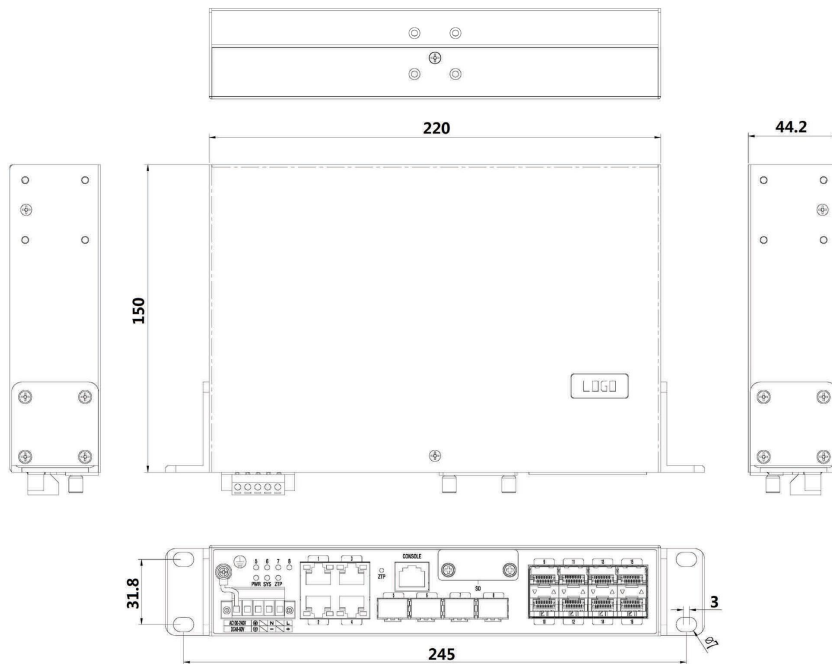
	ISSU
Management and maintenance	Console, Telnet, SSH 2.0 Zero Touch Provisioning (ZTP) Browser-based WEB management SNMP v1/v2/v3 Upload and download of TFTP files Remote Network Monitoring (RMON )

## Hardware Structure

**Panel of 8 Gigabit SFP ports and 8 Gigabit TX ports:**



**Panel of 12 Gigabit SFP ports and 4 Gigabit TX ports:**



## Ordering Information

Item	Description
<b>IES2000 Series DIN-rail/Half-rack Switch</b>	
IES2000-TU8S8T	Managed industrial switch with 8 Gigabit SFP ports and 8 Gigabit TX ports; industrial AC/DC hybrid power input, working temperature: -40~85 ° C; IP40; DIN-rail or half-rack installation.
IES2000-TU12S4T	Managed industrial switch with 12 Gigabit SFP ports and 4 Gigabit TX ports; industrial AC/DC hybrid power input, working temperature: -40~85 ° C; IP40; DIN-rail or half-rack installation.
IES2000-TW8S8P	Managed industrial switch with 8 Gigabit SFP ports and 8 Gigabit POE ports; industrial DC 12~55V redundant dual input, support POE/POE+, maximum POE power 240W, working temperature: -40~75°C; IP40; DIN-rail installation.

### **For More Information**

For more information about [BDCOM IES2000 Series](#) please contact your local BDCOM account representative.

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