3onedata
Reliable Connections



IEM6200-7T3G Series

Embedded Mounting

10-port 100M/Gigabit Layer 2 Managed Industrial Ethernet Switch Module

- Support 3 Gigabit Ethernet interfaces, can be configured as Gigabit copper ports and Gigabit SFP interfaces
- Support 7 100M Ethernet interfaces, can be configured as 100M copper ports and 100M fiber ports
- Adopt Ring patented technology, support single ring, coupling ring, chain, Dual-homing ring network function, automatic recovery time of network failure < 20ms
- Module power supply 3.3VDC (±5%)
- Support -40~75℃ wide operating temperature range

<20ms RECOVERY

Introduction

IEM6200-7T3G series is a 10-port 100M/Gigabit layer 2 managed industrial Ethernet switch module, which has the characteristics of high integration, small size, rich functions, simple and convenient operation. This product provides 3 Gigabit Ethernet interfaces and 7 100M Ethernet interfaces; The embedded installation method can meet the needs of different application sites.

Network management system supports various network protocols and industrial standards, such as Ring, STP/RSTP, 802.1Q VLAN, QoS, Port Trunking, LLDP, Port Mirroring. It also possesses complete management functions, including Port Configuration, Port Statistics, Access Control, Network Diagnosis, Rapid Configuration, Online Upgrading and so on, and supports CLB, WEB, Telnet, SNMP and other access methods. Network management system could bring you great user experience through its friendly interface design and easy and convenient operation.

Hardware adopts fanless, low power consumption, wide temperature design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, rail transit, smart city, safety city, new energy, intelligent manufacturing and other industrial fields.

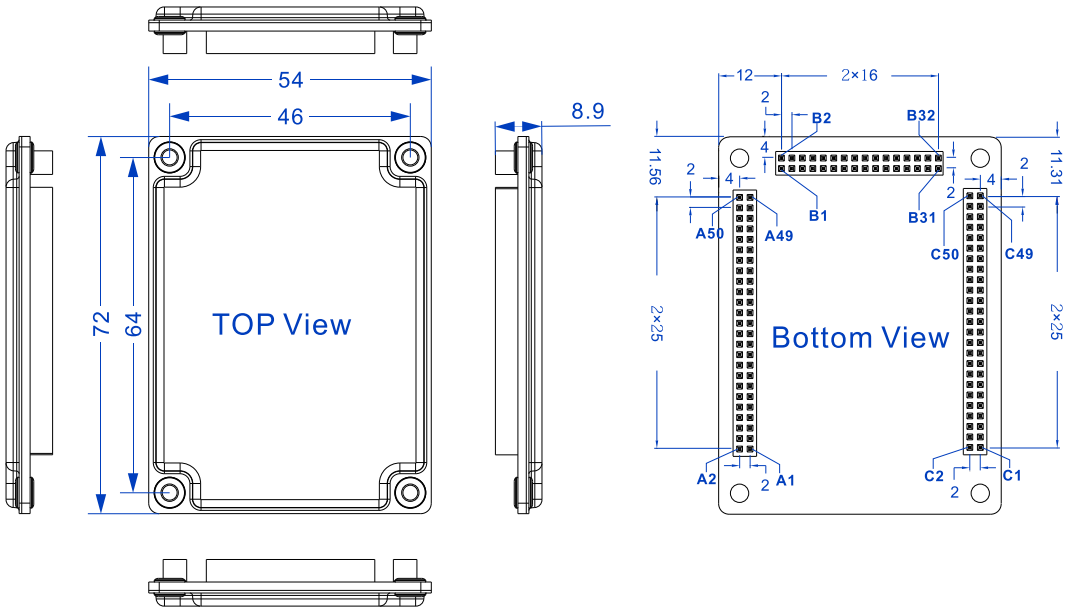
Features and Benefits

- SNMPv1/v2c is used for network management of various levels
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- File management is convenient for rapid configuration and online upgrading of the device
- Bandwidth management can reasonably distribute network bandwidth, preventing unpredictable network status
- Port statistics can be used for the port real time traffic statistics
- User password can conduct user hierarchical management to improve the device management security
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain broadcast, unknown multicast and unicast
- VLAN is used for simplifying network planning
- Port Trunking can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- IGMP Snooping can be used for filtering multicast traffic to save the network bandwidth

- Ring and STP/RSTP can achieve network redundancy, preventing network storm

Dimension

Unit: mm



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow Control IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1Q for VLAN IEEE 802.1p for CoS
Management	SNMP v1/v2c Centralized Management of Equipment, Port Mirroring, QoS, LLDP, DHCP Client, File Management, Port Statistics, Log Report
Security	Classification of User Permissions, Port Alarm, Power Alarm, Threshold Alarm, MAC Security, Port Security, Storm Suppression
Switch Function	802.1Q Vlan, Static Port Aggregation, Bandwidth Management, Flow

	Control
Unicast / Multicast	IGMP Snooping
Redundancy Technology	Ring, STP/RSTP
Interface	100M Ethernet interfaces: support 7 10/100Base-T(X) copper ports or 100Base-FX fiber ports (optional fiber/copper port). Gigabit Ethernet interfaces: support 3 10/100/1000Base-T(X) copper ports or 1000Base-X SFP interfaces. Console port: TTL level serial data Alarm interface: support 2 alarm information inputs and 1 alarm information output
Indicator	Running indicator, port LINK indicator, port SPEED indicator
Switch Property	Transmission mode: store and forward MAC address: 4K Cache: 2Mbit Backplane bandwidth: 9.6Gbps Switch time delay: <10μs
Power Supply	Module power supply 3.3VDC (±5%)
Power Consumption	No-load: 1.226W@3.3VDC Full-load: 1.456W@3.3VDC
Working Environment	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 0%~95% (no condensation)
Mechanical Structure	Installation: embedded installation (with conducting strip, can be equipped with heat sink) Dimension (W x H x D): 72mm×8.9mm×54mm Weight: 0.023kg
Warranty	5 years

Ordering Information

Model	100M Ethernet Port	Gigabit Ethernet Port	Power Supply
IEM6200-7T3G	7	3	3.3VDC (±5%)

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