IEM7010

10 Ports Embedded Managed Industrial Ethernet Switch Core Module

Features

◎Support 7 100M ports and 3 1000M ports, port types are optional
◎Support self-developed SW-Ring redundant network patented technology, many looped networks, failover time <20ms
◎Support Layer 2 protocols of Ethernet switch such as VLAN, QoS, Port Trunking, Port Mirroring, IGMP Static Multicast
◎Support Web, CLI, Telnet management
◎Support rate limiting and broadcast storm control
◎Support port data frame statistics
◎Support abnormal alarm
◎Support one-key configuration
◎Energy saving design, power consumption < 5W
◎Working temperature -40～85℃
◎Compact and integrated
◎Stainless and high-strength shell, fanless slim design

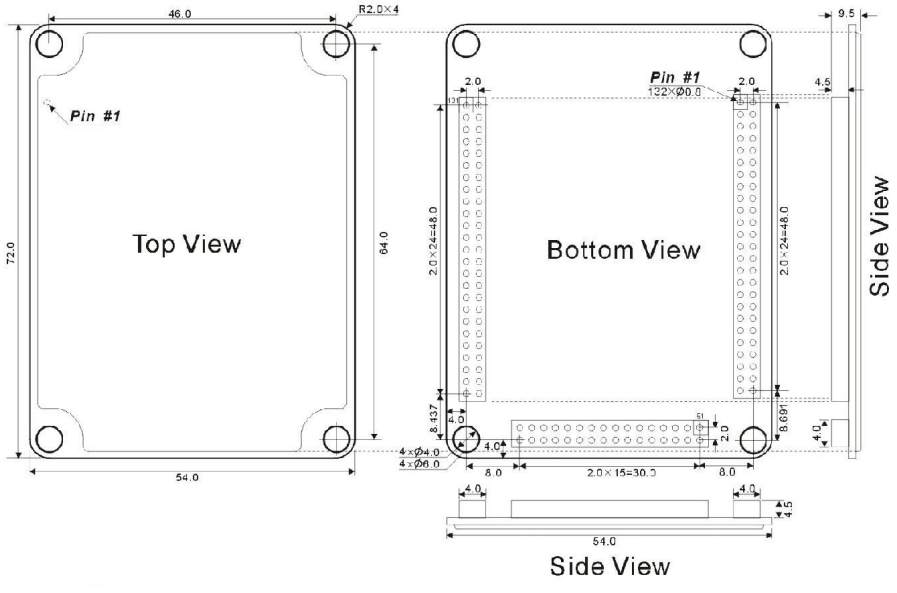


Introduction

IEM7010 is the world's first intelligent 1000M embedded industrial Ethernet switch module designed for Ethernet equipment connection in industrial application. It supports seven 100M ports and three 1000M ports, and is suitable for video transmission that features huge data flow. Furthermore, IEM7010 also supports self-developed SW-Ring redundant Ethernet protocol with a failover time less than 20ms, ensuring the real-time and reliability of network. It can be widely applied in vehicle system, mining monitoring system, water resources and hydropower monitoring system, petrochemical industry pipeline monitoring system, smart traffic monitoring system, and water treatment monitoring system.

Dimension

Unit (mm)



Specification

Technology

IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z, IEEE802.1p, IEEE 802.1Q,IEEE802.3ad

Interface

Ethernet port:

Three 1000M ports and seven 100M ports, available to be set as electrical or optical port as required

Redundant ring network port:

All Ethernet ports can be set as redundant ring network ports

Web setting port:

All Ethernet ports come with Web setting, and support one LVTTL level serial port for serial Web setting

Alarm port:

Two LVTTL level monitor signal inputs provided for collecting alarm message of port and power abnormal. One LVTTL level alarm message output, support local alarm and remote alarm of power, port link and ring network status.

System Parameters

Switched bandwidth: 7.6G

MAC table size: 8K

Networking

Single Ring, Tangent Ring, Star, Chain, Coupling Ring, Dual Homing

Failover time < 20ms

Power Supply

Input voltage: 3.3VDC (±5%)

Power Consumption: <5W

Installation mode: embedded module

Physical Characteristics

Size (W*H*D): 72mm×54mm×9.5mm

Working Environment

Working temperature: -40-85℃

Storage temperature: -40-85℃

Humidity: 5%~95% (no condensation)

Warranty

Warranty period: 5 years

Ordering Information

IEM7010 10 Ports Managed Redundant Industrial Ethernet Switch Core Module (7 Ports 100M + 3 Ports 1000M)