

MIEN2105

5-Port Unmanaged Embedded Industrial Ethernet Switch

Product description

MIEN2105 series are ultra-low-power unmanaged embedded 100M industrial Ethernet switches, which are suitable for low-power consumption under various harsh environments. The product supports 3 fiber ports + 2copper ports or 2 fiber ports+ 3 copper ports. The product's port isolation, voltage resistance and other properties can adapt to various harsh working environments, and the communication performance is stable. MIEN2105M adopts a pluggable MCU design, removes the MCU control board product and becomes a non-network management switch, plugs in the MCU control board, and the switch has management functions to adapt to various complex network applications. This series of products can be widely used in rail transit, power, water conservancy, coal mine, chemical industry, wind power generation, video surveillance, defense and military industries.



Features:

- 2 x10/100M based- Fx ports + 3 x10/100M based-Tx ports configuration;
- Ready to use, convenient and fast;
- Support interface status indicator display and extension;
- Support broadcast storm suppression and port rate control functions;
- Support industrial grade power input, low power design;
- Industrial grade wide temperature design, fanless thermal design.

Product specification

Technical specifications

| | |
|-------------------|--|
| Ethernet Standard | IEEE802.3-10Base-T IEEE802.3u (100Base-TX &100Base-FX) IEEE802.3X-Flow Control |
|-------------------|--|

Switch properties

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|-----------------|-------------------|
| Cache size | 512Kbits |
| Mac table | 1k |
| Transfer method | Store and forward |

Interface

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|--------------------------------|--|
| 100M ports | Port numbers: 5. |
| | Connector: 1x9 fixed fiber port(single or multimode, SC/FC/ST available)or RJ45 |
| | Baud rate:100Base-FX/ 10/100M-T(x) auto-negotiation RJ45 port |
| Console port | RS232/RJ45 |
| Terminal block for power input | 2MIEN2105A / B: 2-core 5.08mm pitch power terminal without lock MIEN2105M: 2-core 5.08mm pitch power terminal with lock |

Communication distance

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|-------------------|---|
| Twisted-pair | 100m(CAT5/CAT5e cable) |
| Multi-mode fiber | 100M multi-mode: 850nm 2km |
| Single mode fiber | 100M single mode: 1310nm 20km/40km; 1550nm: 60km/80km |

LED indicator lights

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|------------------|-------------------------------------|
| Indicator lights | Power status indicator |
| | 100M fiber ports indicator light |
| | 100M copper ports indicator light |
| | Support customer external indicator |

Power Requirements

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|-----------------------|------------|
| Power input | DC5-32V |
| Full-load consumption | <1.8W(Max) |

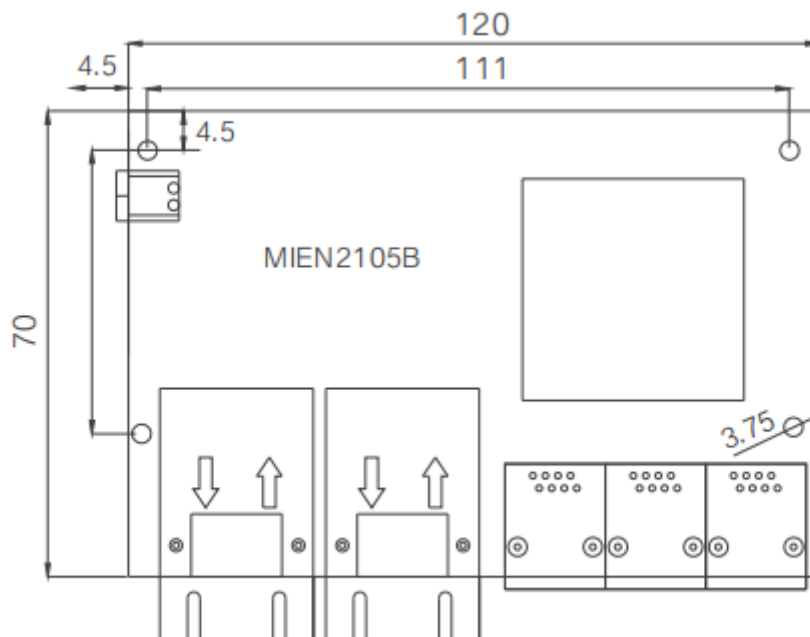
Working Environment

| | |
|-----------------------|-------------------------|
| Operating Temperature | -40°C~85°C |
| Storage temperature | -40°C~85°C |
| Ambient Humidity | 5%~95%(non-condensing) |

Physical Characteristics

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|-----------------|---|
| Shell | None |
| Installation | Positioning hole installation |
| Dimension | MIEN2105A: 94mm×66mm×15mm MIEN2105B: 114mm×68mm×18mm MIEN2105M: 120mm×70mm×20mm |
| Warranty | |
| Warranty period | 5 Years |
| Certification | CE, FCC, RoHS |

Dimensional drawing



Positioning hole installation (Unit: mm)

Ordering information

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|-------------------|--|
| MIEN2105A-2F(M/S) | 2 x10/100M fiber ports + 3 x10/100M based- Tx ports, standard single DC5~30V wide voltage power supply, A type structure |
| MIEN2105B-2F(M/S) | 2 x10/100M fiber ports + 3 x10/100M based- Tx ports, standard single DC5~30V wide voltage power supply, B type structure |
| MIEN2105M-2F(M/S) | 2 *10/100M fiber ports + 3 x10/100M based- Tx ports, standard single DC5~30V wide voltage power supply. Can be equipped with a plug-in MCU board |
| MIEN2105M-3F(M/S) | 3* 10/100M fiber ports + 2 x10/100M based-Tx ports, standard single DC5~30V wide voltage power supply. Can be equipped with a plug-in MCU board |