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The Ethernet Module is a high-performance solution designed for stable and reliable wired networking. It supports 10/100/1000 Mbps Ethernet transmission via standard twisted pair cabling and features an RJ45 interface. With low power consumption, electromagnetic shielding, and wide compatibility, this module is ideal for industrial automation, IoT systems, embedded networking, and enterprise LAN applications.

Key Features

- Supports 10/100/1000 Mbps Ethernet transmission
- Complies with IEEE 802.3 standards
- RJ45 connector with integrated magnetics (optional)
- Low power consumption design (<2W)
- Operating temperature: -20°C to +70°C (Industrial Grade)
- Supports Auto-Negotiation and Auto MDI/MDIX
- Optional Power over Ethernet (PoE) function (IEEE 802.3af/at/bt)
- Compact form factor, easy to integrate into embedded systems
- Excellent EMI performance and surge protection

Applications

- Industrial automation and control systems
- IoT gateways and edge computing devices
- Enterprise LAN and data communication systems
- Network switches, routers, and controllers
- IP cameras and wireless access points (PoE models)

Technical Specifications

Model	Supported Media	Connector Interface	Max Data Rate	Power Consumption	Operating Temperature	Electrical Characteristics	Recommended Conditions	Notes / Compatibility
Ethernet Module	Cat5e / Cat6 Twiste	RJ45	10/100 Mbps	<1.5W	0°C ~ 70°C	IEEE 802.3u, Auto	Supply Voltage:	Plug-and-play, compatib



10/100M	d Pair					MDI/MDIX, Full/Half Duplex	3.3V ±5%	le with routers & controller s
Ethernet Module 10/100/10 00M	Cat5e / Cat6 / Cat6a	RJ45	10/100/1 000 Mbps	<2W	0°C ~ 70°C	IEEE 802.3ab, Jumbo Frame support	Supply Voltage: 3.3V ±5%	Supports LAN & embedde d systems
Ethernet Module with PoE	Cat5e / Cat6	RJ45	10/100/1 000 Mbps	<3W (excludin g PoE output)	-20°C ~ 70°C	IEEE 802.3af/at, up to 30W output, Surge protected	Supply Voltage: 48V PoE	Supports IP cameras, APs, IoT devices

Compliance and Reliability

- RoHS and REACH compliant
- 1500 Vrms isolation between line and chassis
- Surge and ESD protection compliant with IEC 61000-4-5 / 61000-4-2
- 100% tested for continuity and performance
- Designed and manufactured under ISO 9001 certified quality system

Mechanical Outline

Mechanical dimensions and PCB footprint available upon request. Typical RJ45 module dimensions: 21.5 × 15.9 × 13.5 mm.

Ordering Information

HY-ETH-100M — 10/100 Mbps Ethernet Module

HY-ETH-1G — 10/100/1000 Mbps Gigabit Ethernet Module

HY-ETH-POE — PoE-enabled Gigabit Ethernet Module (IEEE 802.3af/at)

Disclaimer

Specifications are subject to change without notice. All performance characteristics are typical and may vary depending on operating conditions and configurations. Customers are advised to verify specifications before final product design.