

Vertical Mount Series

Single Port RJ45 MagJack® ICMs

Bel Magnetic Solution's Vertical Mount series single port RJ45 MagJack® ICMs offer 10/100BASE-T thru 10GBASE-T Ethernet performance in the same mechanical package and footprint as existing passive vertical mount connectors. These ICMs are aimed at customers who have non-traditional board mount applications where a standard right angle ICM will not fit. They can implement 60W PoE to double the amount of power their product can handle over any existing application while also increasing their speed 10 times over standard Gigabit Ethernet. The Vertical Mount series ICMs are backward compatible to existing Ethernet networks and are compatible with all major 1GBASE-T thru 10GBASE-T PHYs, including the latest current-mode and voltage-mode chips.

Suitable applications include single-board motherboards, industrial PCs, printers, daughter cards, industrial controllers and any applications requiring a vertical mount Ethernet connector, where board space is a premium. The 60W products are ideal for next generation 5G cellular and Wireless Access Point applications.

Features & Benefits

- Vertical mount configuration
- Available with POE compatibility
- Can be used on non-traditional PCB mount applications
- Forward compatible to 2.5G, 5G and 10G
- Includes options for two LEDs – yellow, green, orange, or bi-colors
- Single port configuration for 10/100BASE-T, 1GBASE-T, 2.5BASE-T & 10GBASE-T Ethernet
- Same mechanical package and footprint as existing passive vertical mount connectors
- Available circuit options: 10/100BASE-T, 1GBASE-T, 2.5BASE-T & 10GBASE-T
- Can be used on next generation PoE products where 30W of power is not enough

Applications

- Single-board motherboards
- Industrial controllers
- Industrial PCs
- Daughter cards
- Printers

Specifications

- Meets all IEEE 802.3 1GBASE-T thru 10GBASE-T electrical requirements including RL, IL, hi-pot and common mode parameters
- Can carry 720mA of current at 57 VDC continuous
- Operates from -40°C to 85°C
- 100% hi-pot tested in production
- Comes with many different LED color combinations and options
- UL recognized
- Lead-free wave-solder compatible
- RoHS 6/6 compliant



Part Numbers

Bel Part Number	Speed	LEDs	Power	Operating Temperature
SI-16001-F	10/100BASE-T	No	No	0°C to 70°C
SI-46001-F	10/100BASE-T	Yes	No	0°C to 70°C
SI-46020-F	10/100BASE-T	Yes	60W	0°C to 70°C
V895-1001-AW	10/100BASE-T	No	60W	0°C to 70°C
V890-1AX1-A1	1GBASE-T	Yes	No	0°C to 70°C
1840061-1	10/100BASE-T	No	No	-40°C to 85°C
1840417-4	1GBASE-T	Yes	No	0°C to 70°C
1840453-2	1GBASE-T	Yes	No	0°C to 70°C
1840472-1	1GBASE-T	Yes	No	-40°C to 85°C
1840498-6	10/100BASE-T	Yes	No	-40°C to 85°C
V8BR-1AX1-GH	1GBASE-T	Yes	60W	-40°C to 85°C
V8BR-1AX1-HT	2.5GBASE-T	Yes	60W	-40°C to 85°C
V8BR-1AX1-JK	5GBASE-T	Yes	60W	-40°C to 85°C
G55-122N-155	10GBASE-T	Yes	60W	-40°C to 85°C

