

Product Group: ICM – PulseJack™

Part Number: JT4-xCx Series – (see page 2)

Description: Low Profile Integrated Magnetic Connectors for PCI express cards

Solution Features

- Low profile THD ICM - (28.82 x 17.53 x 11.9mm)
- Meets IEEE802.3 Ethernet standard for 1G to 10G data rates
- New design with EMI and LED options
- 30u" Gold contact plating – >750 insertions
- Excellent electrical performance up to 400MHz
 - -2.0dB insertion loss min (typ. -1.4dB for 10G)
- Commercial temperature range with up to 90W PoE
- MSL1 design, ROHS, REACH and Halogen Free
- Peak wave temperature of 270°C
- Targeted for PCI express application, where component height is critical <12mm
- High Bandwidth Connectivity
- Matched to all major IC suppliers for 1G, 2.5G, 5G and 10G

Tools & Resources

- Product Information
 - Website: Datasheet - [JT4-xCx-Series Data Sheet](#)
 - Supplied on request
 - RoHS and REACH statement
 - 3D CAD file
 - UL Certificate file# E493645



Solution Benefits – Why are we releasing these parts

- PCI Express or PCIe is a high-speed serial computer expansion bus standard, designed to support additional add-on features to motherboards within personal computers and professional equipment. The latest standard has numerous improvements on the older expansion slot technology for higher bandwidth and this means a growing demand for faster data rates on copper from 1Gigabit to 10Gigabit. All offered in a smaller and lower profile card size. Therefore, any RJ45 connector need to be of a lower height than conventional products.
- The new JT4-xCx range stands at just 11.9mm above the PCB and is designed to support PCIe boards fitted in slots with a 1U (22.48mm) pitch on the motherboard.
- Advantages for the new JT4-xCx series
 - Multi-rate Ethernet - option for 1G, 2.5G, 5G and 10G
 - Options with / without PoE (90W)
 - LED and EMI options

Why use JT4-xCx series?

- Low :Profile - >12mm off PCB
- Multiple Data rates and Options in one footprint and size
- Improved Design for EMI
- Supports Power over Ethernet (PoE+) up to 90W .
- RoHS, REACH compliant and Halogen-free



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Part No.	Data Rate	Power over Ethernet enabled	LED Colour (Left/Right)	EMI Fingers	Latch Style	Package Size(mm) (L x W x H)	Operational Temperature Range
JT4-1121CHL	1Gig	NO	Yel/Grn-Grn	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-1141CHL	1Gig	60W (4P PoE+)	Yel/Grn-Grn	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-2504CHL	2,5Gig	NO	Yel/Grn-Grn	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C
JXT4-2008CHL	2.5Gig	NO	NONE	YES	DOWN	28.8 x 17.5 x 11.9	-40~85°C
JT4-5004CNL	5Gig	NO	Yel/Grn-Grn	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-5005CNL	5Gig	90W (4P PoE+)	Yel/Grn-Grn	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-1191CHL	10Gig	NO	Yel/Grn-Grn	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-1173CHL	10Gig	NO	Grn-Grn/Yel	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-1205CHL	10Gig	NO	Yel/Grn-Grn	NO	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-1221CHL	10Gig	90W (4P PoE+)	Yel/Grn-Grn	NO	DOWN	28.8 x 17.5 x 11.9	0~70°C
JT4-1222CHL	10Gig	90W (4P PoE+)	Yel/Grn-Grn	YES	DOWN	28.8 x 17.5 x 11.9	0~70°C