

HIGH POWER AND INDUSTRIAL GRADE RJ45

Industrial | Media Converters | Uncompressed Video | Voice | Robotics Data
Center Control | Test | Medical | IoT

RJ45 SOLUTIONS BY ABRACON

Abrakon's RF and Connectivity product line features high speed and Industrial grade RJ45 jacks with performance speeds starting from 10/100/1000 Base-T to 10G Base-T with or without PoE/PoE+/PoE++ support. The integrated magnetic design, available in custom configurable parts, eliminates complex design and testing, reduces time to market, and saves PCB space. Both with and without EMI finger options are available across all RJ45 products.

PRODUCT HIGHLIGHT

ALAN-2402 | 10GBase-T with PoE++ support

The ALAN-2402 transformer module provides optimal signal conditioning, EMI suppression and signal isolation for ethernet connectivity needs.

TOP APPLICATIONS

- Medical Equipment
- IoT
- Data Center
- Machine Vision Systems

Single Port Shielded POE, POE+, POE++ RJ45 Jacks with Integrated Magnetics

SERIES	MOUNT	FUNCTIONALITY	LED	ORIENTATION
ARJ-139	Thru Hole	1000 Base-T, PoE++	Green, Yellow - Green	90° Angle (Right)
ARJ-199	Thru Hole	10/100 Base-T, PoE+	Green, Orange - Yellow	90° Angle (Right)
ARJ-146	Thru Hole	10/100/1000 Base-T, PoE	No LED	90° Angle (Right)
ARJP11A	Thru Hole	10/100 Base-TX, PoE	Green - Yellow	90° Angle (Right)
ARJP11C	Thru Hole	10/100 Base-T, Po	Green - Yellow	90° Angle (Right)

Guide on POE, POE+, POE++

TYPE	STANDARDS	MAXIMUM CURRENT	NUMBER OF ENERGIZED PAIRS	POWER AT SOURCE	POWER AT DEVICE	MAXIMUM DATA RATE
PoE	IEEE 802.3af (802.3at Type 1)	350 mA	2	15.4 W	13 W	1000BASE-T
PoE+	IEEE 802.3at Type 2	600 mA	2	30 W	25.5 W	1000BASE-T
PoE++ (4PPoE)	Proposed IEEE 802.3bt Type 3 Proposed IEEE 802.3bt Type 4	600 mA 960 mA	4	51 W 71.3 W	60W 90W	10GBASE-T