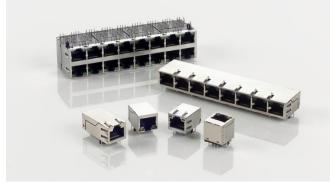
THE EDAC GROUP OF COMPANIES







PRODUCT KNOWLEDGE EDAC MAGNETIC JACK

CONNECTORS

Bernard Raikes Product & Applications Manager



EDAC MAGNETIC JACKS PROGRAM

Why Magnetic Jack?

Drivers supporting Magnetic Jacks

Popular Versions

EDAC Offering

EDAC Order Guide

EDAC Part Numbers

Applications

Competition



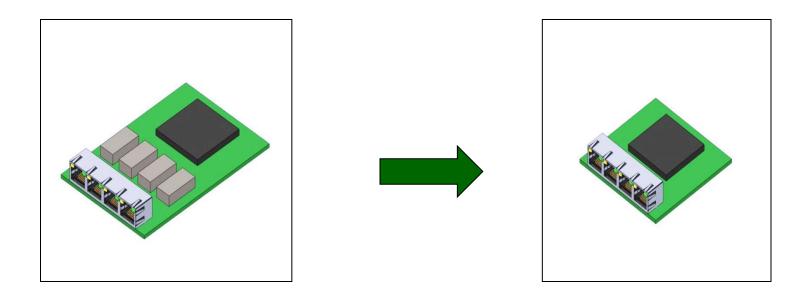








WHY MAGNETIC JACK?



Separate Magnetics & Components

Integrated Solution

A MagJack is a combination of up to 10 discrete components

They include the RJ45 connector, the impedance matching transformers, 2 LED's, 4 termination resistors, 1 high voltage capacitor and often common mode chokes as well



DRIVERS SUPPORTING CHOOSING A MAGNETIC JACK SOLUTION

Maximise Available PCB Space

By combining the components into one housing you can cut the real estate by around 50%

Maximise Efficiency

In engineering, purchasing, inventory management and manufacturing

Reliability

Magnetics are often the least reliable components on a PCB, so inside the RJ45 housing along with the other components, they are protected from heat and other environmental exposure with can accelerate untimely and unexpected field failures

Noise Reduction

System noise manifests itself in any number of forms, such as EMI, RFI, cross talk and jitter, with all the components inside the housing there are no exposed components, so reducing the signal path, with reduced exposed traces, all which reduce system noise, further enhanced by using shielded housings

Availability

Manufacturer stock into Distributor stock



WHAT WILL BE THE MOST POPULAR MAGNETIC JACKS?

10/100 Base T

10/100 Base T (with POE)

1000 Base T

1000 Base T (with POE)



EDAC MAGNETIC JACK OFFERING

Single or dual stack multiport options

10/100 and 1000 Base T options fully 802.3 compliant

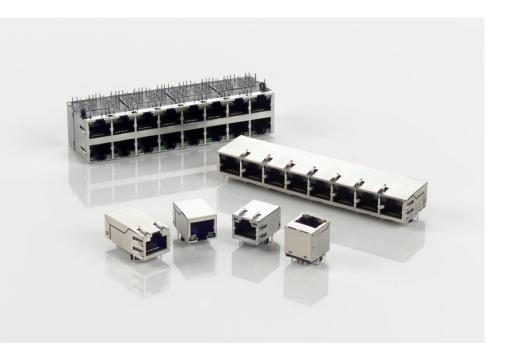
With or without POE / VOIP capability

Shielded or Unshielded

Spring fingers for better EMI

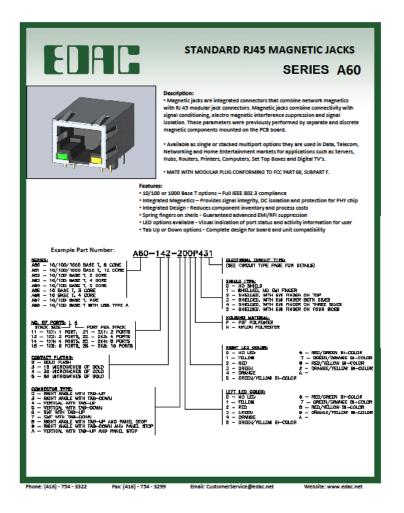
LED options for visual indication of port status and activity information

Tab up and Tab down options for board and unit design compatibility





EDAC MAGNETIC JACK ORDERING GUIDE





EDAC MAGNETIC JACK CONNECTOR PART NUMBERS

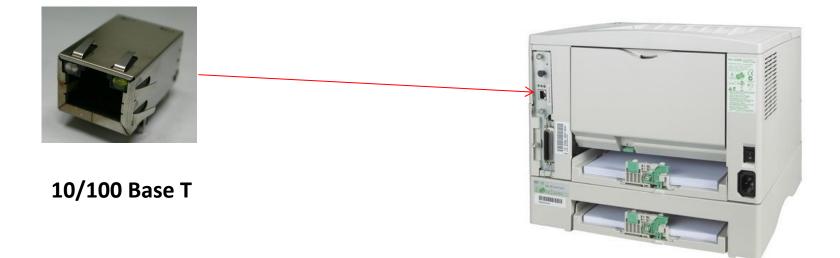




Mother Boards

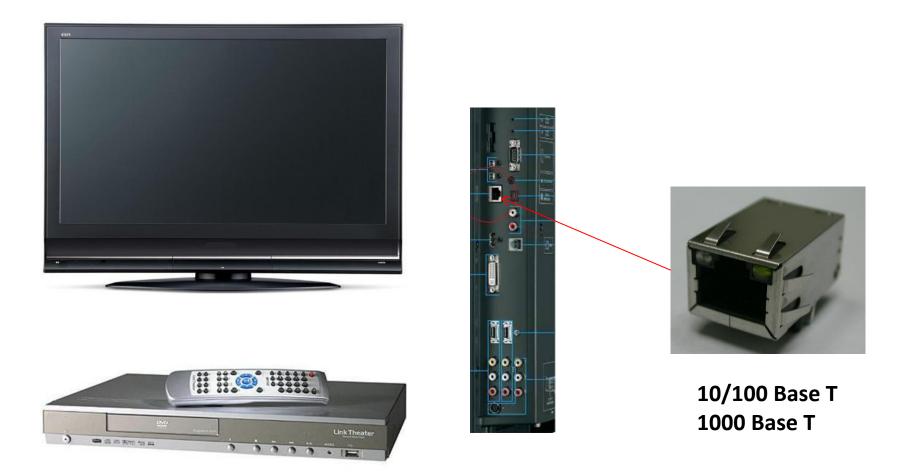
10/100 Base T (1000 Base T planned)





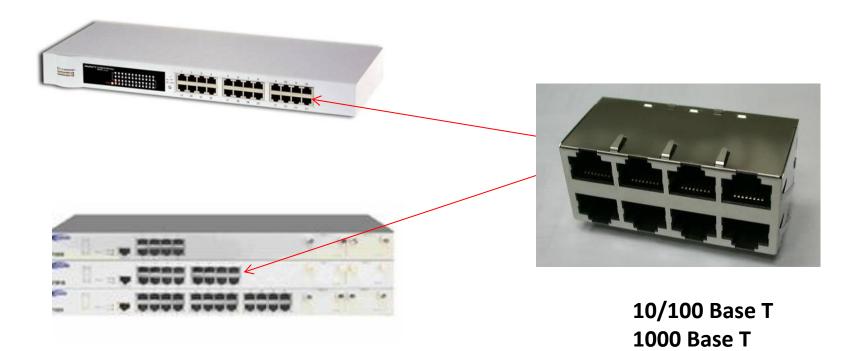
Laser Printer





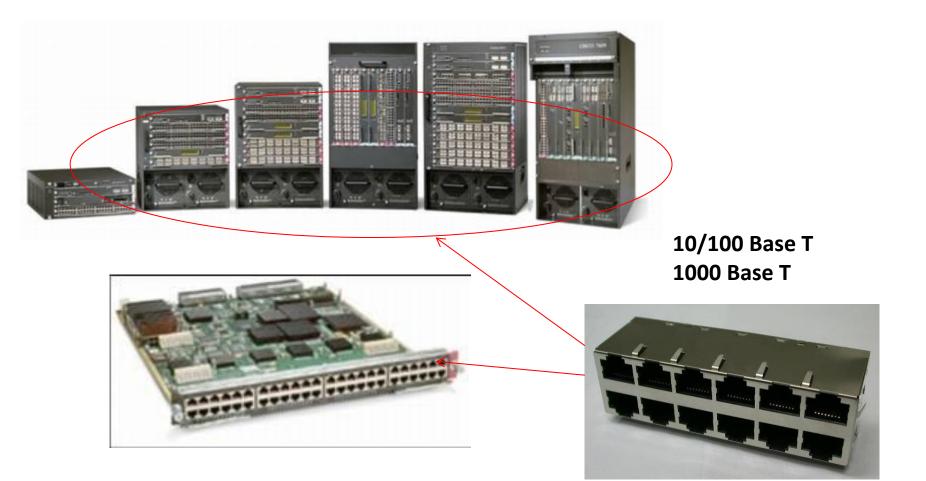
Home Entertainment





Business Networks





Enterprise Networking



SOME COMPETITORS

