

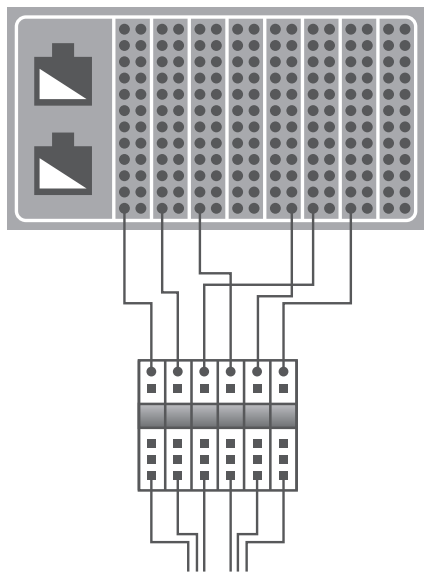
## Easy Plug and Play I/O

EZE series EtherCAT plug-in modules: Combining the benefits of standard module and customized I/O carrier.

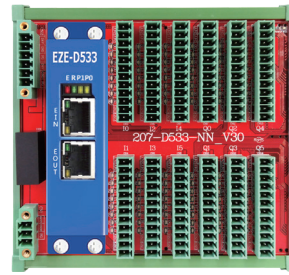
EtherCAT plug-in modules designed by TPM offers high level flexibility in during installation. It's designed to be installed in the field near to your devices. Plug and play capabilities make EZE I/O a smart choice for your machine control system.

An individual wiring is switched to a distribution board which ensures dependable quality for each machine and avoids error-wiring mistakes associated with individual wiring of terminals by eliminating long, complex and expensive multi-core cable runs from field devices to your distributed control system cabinets.

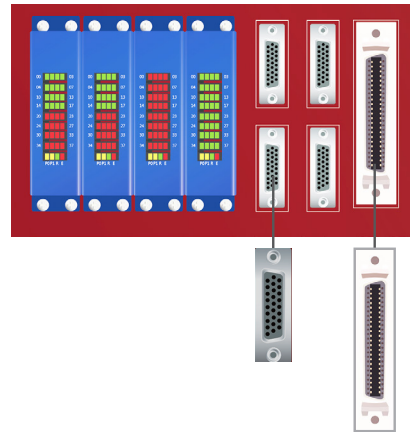
## Traditional Wiring



## Simplified Wiring



## Multi-function Wiring



### Is your distributed I/O design modularized?

Modular design makes EZE series a fantastic solution for distributed I/O structure. Engineers can save lots of time from setting up the machine on-site, not to mention the time wasted on debugging and justifying the additional wiring.

### Why keep struggling with rigid I/O architecture design?

Imagine electrical engineers pull wires out to devices all day long just for building up an Ethernet network between the controller and I/O modules inside the machine-mounted enclosure. New EZE series with a customized carrier can ease the selection process by spanning control architectures used in both centralized and distributed systems.

### Advantages

TPM is able to leverage existing solutions and proven design concepts to meet unique application needs. We provide compliant solutions with significantly reduced lead time, cost and risk to our clients global wide.

- ✓ Reduced capital equipment costs
- ✓ Reduced installation time and expense
- ✓ Increased control cabinet space
- ✓ Increased process ability

## Reduced capital equipment costs

A remote I/O solution reduces cost and space needed inside the main cabinet since it reduces the quantity of both terminals and protection mechanisms. Each I/O carrier forms a robust bus for up to 96 I/O interfaces. Full modular design is available in 32, 48, 64 up to 96 channels. Users has flexibilities for choosing exact amount of I/O module in one carrier board which may reduce total capital equipment cost.

## Reduced installation time and expanse

Eliminate complex cable wiring by simply wiring to the controller and the I/O modules with a single EtherCAT cable line. Each EZE I/O module can be seamlessly integrated with an EtherCAT terminal as a single distribution board but more flexible.

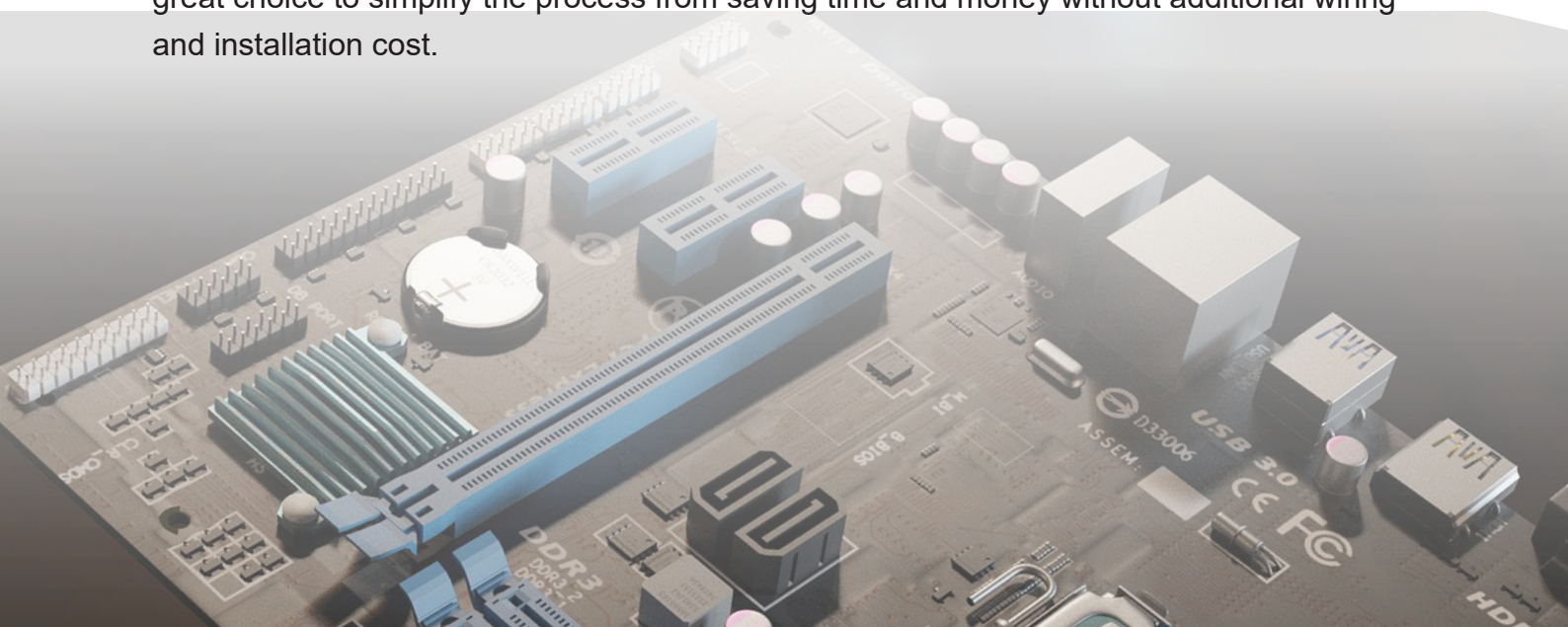
Quickly mounting the I/O interface carrier and begin installing the field devices in a short time. I/O terminal blocks plug directly onto the I/O interface carrier without requiring additional the I/O cards installed.

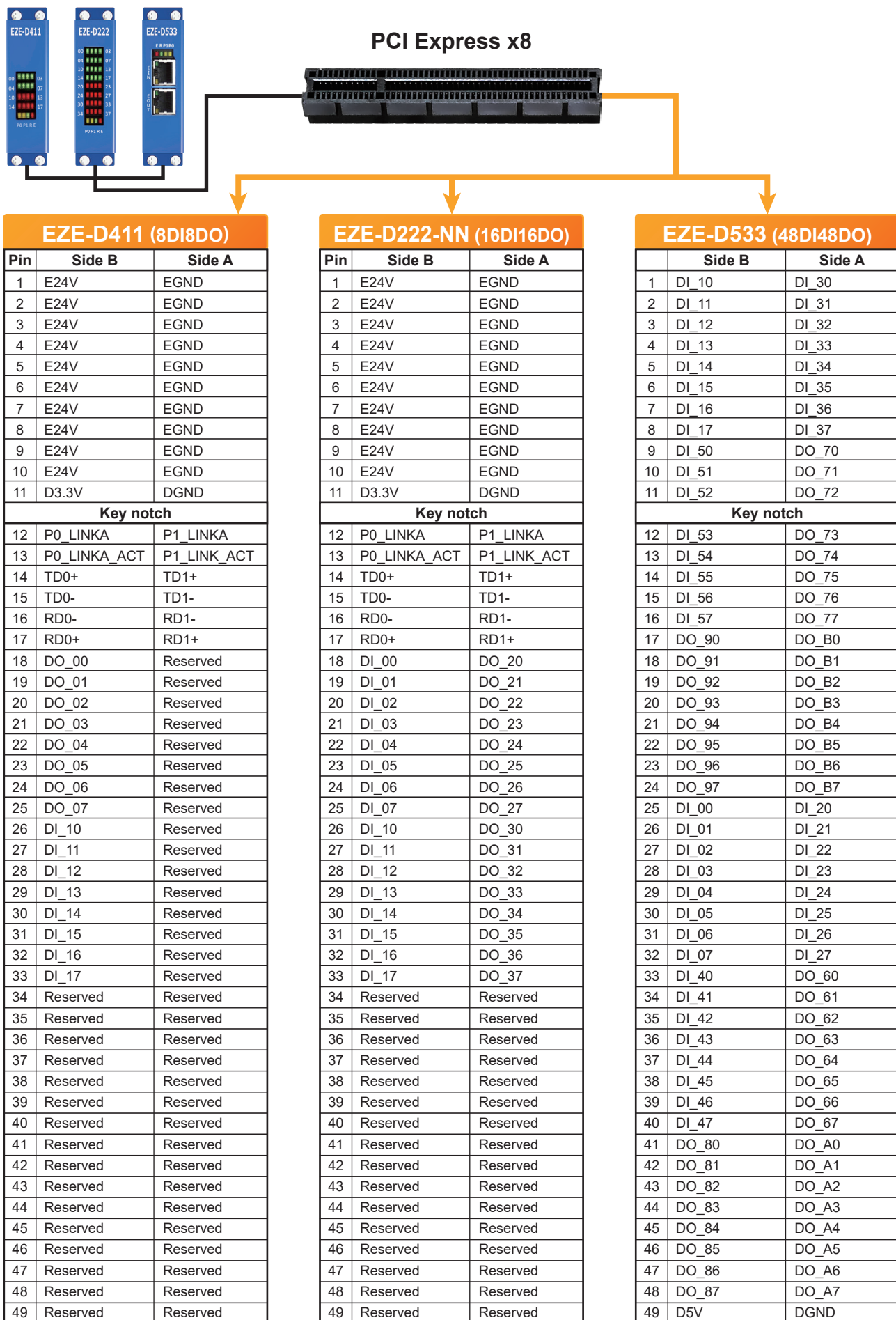
## Increased installation space

Still worry your installation space is too small for installing I/O modules in one cabinet? TPM provides solutions for embedding the I/O modules directly on a carrier board in a limited space. A customized designed circuit board whereby I/O terminals can be connected without the need for individual wiring.

## Increased process ability

TPM brings benefit added access to the I/O module and makes troubleshooting much simpler. If data needs to be sent back to the controller, tracing the wires could be difficult, especially without any labels on each wire properly. In this case, EZE series would be a great choice to simplify the process from saving time and money without additional wiring and installation cost.

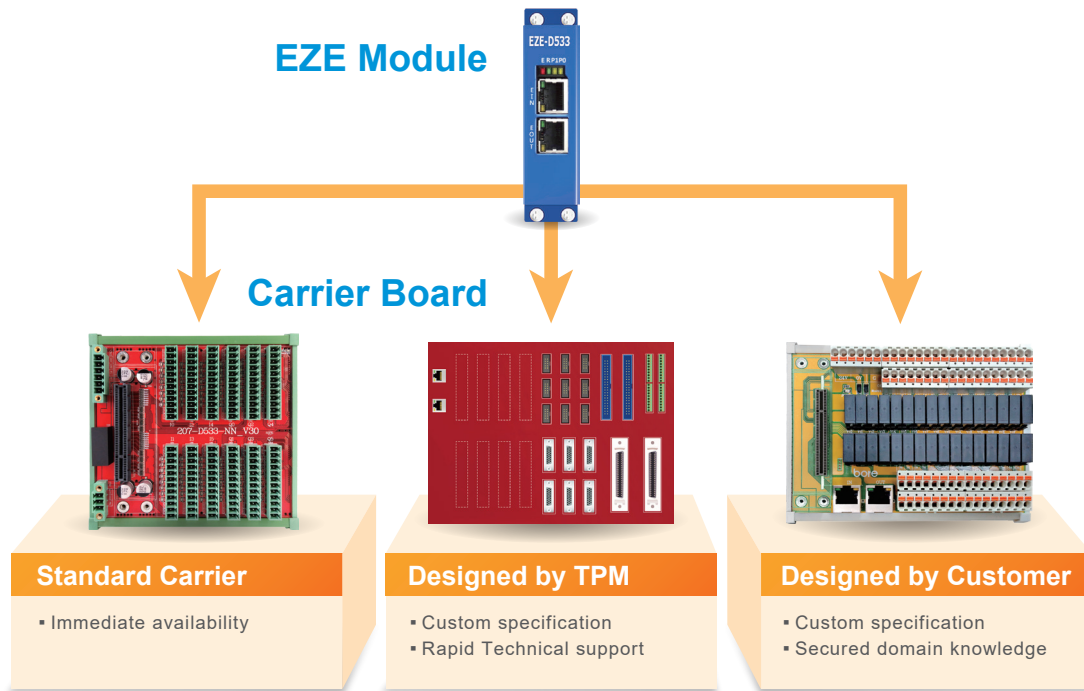






# Flexible Customization

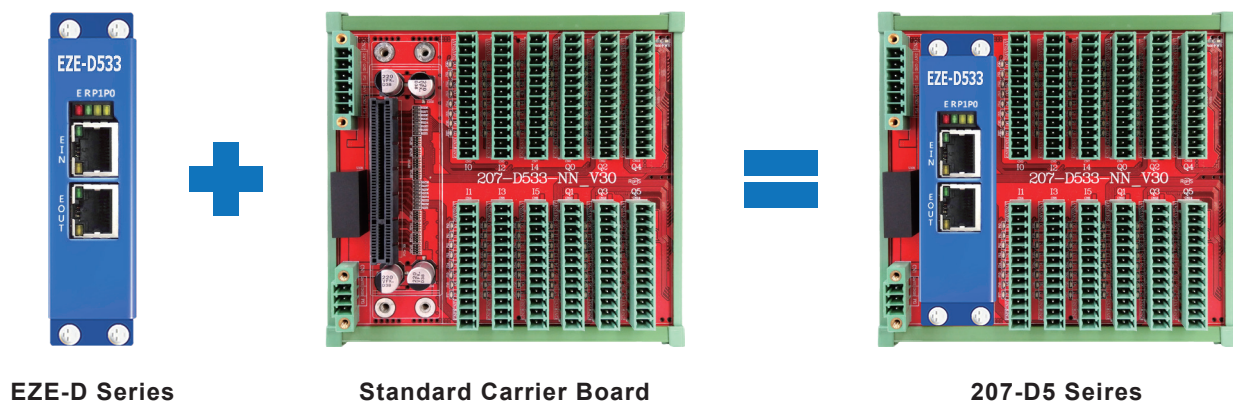
EZE modules can be mounted on a wide range of carrier boards that could be either developed by TPM or by customers with a flexible, cost effective transition from Sub-D, Ribbon Cable and other connectors to terminal blocks.



A combination of customized carrier board with a standard EZE I/O module (EZE-D series) offers a complete development platform with enhanced design scalability and flexibility. Designers can simply develop their custom carrier board based on the specific interface requirements and budget limits.

Begin to build your own customized carrier board with us now.

## Standard Products

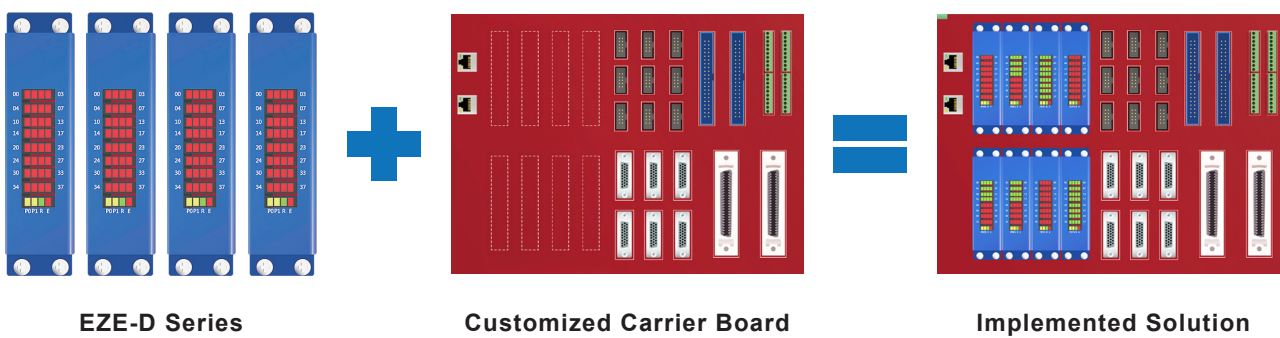


## Custom Design Services

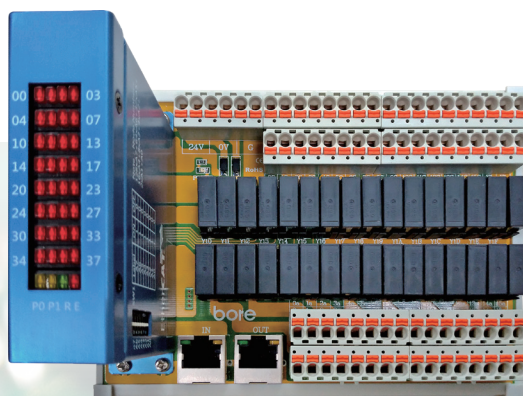
A centralized solution helps user on reducing the length of peripheral cables with tailored carriers. Users may simply plug-in one EZE module, a standard I/O module, either in a standard carrier board or a customized carrier board with ribbon, E-Con or pluggable connector. Special designed EZE modules provide error proof function by preventing the wrong I/O module being installed or plugged into a carrier board.

EZE series integrate add-on I/O and connectors into a single baseboard. With constant I/O connections, simplified system packaging, and eliminated cabling, the system-level cost is greatly reduced.

### Designed by TPM



### Designed by Customer



**EZE-D Series + Full Customized Carrier**