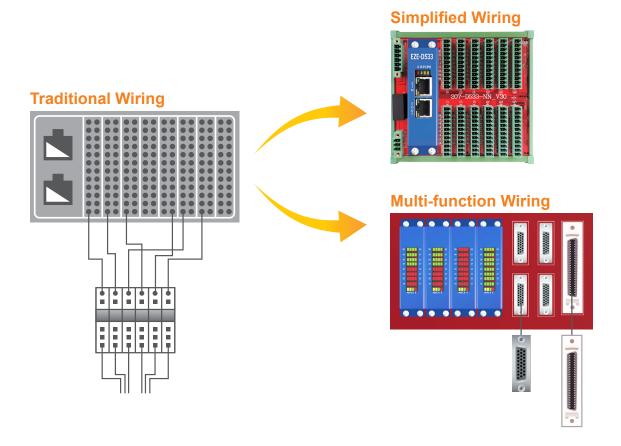


Easy Plug and Play I/O

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.



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.

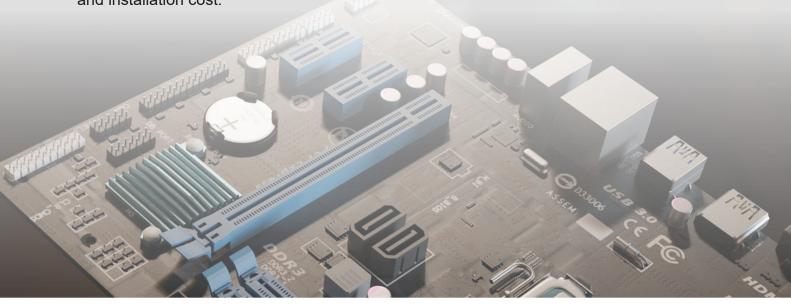
Quickly mounting the I/O interface carrier and begin installing the field devices in a short time. I/O terminal blocks plug directly onto the I/O interface carrier without requiring additional the I/O cards installed.

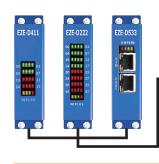
Increased installation space

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.





PCI Express x8

EZE-D411 (8DI8DO)

	EZE-D411	(סמאומא)
Pin	Side B	Side A
1	E24V	EGND
2	E24V	EGND
3	E24V	EGND
4	E24V	EGND
5	E24V	EGND
6	E24V	EGND
7	E24V	EGND
8	E24V	EGND
9	E24V	EGND
10	E24V	EGND
11	D3.3V	DGND
	Key no	tch
12	P0_LINKA	P1_LINKA
13	P0_LINKA_ACT	P1_LINK_ACT
14	TD0+	TD1+
15	TD0-	TD1-
16	RD0-	RD1-
17	RD0+	RD1+
18	DO 00	Reserved
19	DO_01	Reserved
20	DO 02	Reserved
21	DO 03	Reserved
22	DO 04	Reserved
23	DO 05	Reserved
24	DO 06	Reserved
25	DO 07	Reserved
26	DI 10	Reserved
27	DI 11	Reserved
28	DI 12	Reserved
29	DI 13	Reserved
30	DI 14	Reserved
31	DI 15	Reserved
32	DI 16	Reserved
33	DI 17	Reserved
34	Reserved	Reserved
35	Reserved	Reserved
36	Reserved	Reserved
37	Reserved	Reserved
38	Reserved	Reserved
39	Reserved	Reserved
40	Reserved	Reserved
41	Reserved	Reserved
42	Reserved	Reserved
43	Reserved	Reserved
44	Reserved	Reserved
45	Reserved	Reserved
46	Reserved	Reserved
47	Reserved	Reserved
48	Reserved	Reserved
49	Reserved	Reserved
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	N (16DI16DO)
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Pin	Side B	Side A			
1	E24V	EGND			
2	E24V	EGND			
3	E24V	EGND			
4	E24V	EGND			
5	E24V	EGND			
6	E24V	EGND			
7	E24V	EGND			
8	E24V	EGND			
9	E24V	EGND			
10	E24V	EGND			
11	D3.3V	DGND			
	Key notch				
12	P0 LINKA	P1_LINKA			
13	P0 LINKA ACT	P1 LINK ACT			
14	TD0+	TD1+			
15	TD0-	TD1-			
16	RD0-	RD1-			
17	RD0+	RD1+			
18	DI 00	DO 20			
19	DI_00	DO_20			
20	DI_01	DO_21			
21	DI_02	DO_22			
22	DI_03	DO_23			
23	DI_04	DO_24			
-	_				
24	DI_06	DO_26			
25	DI_07	DO_27			
26	DI_10	DO_30			
27	DI_11	DO_31			
28	DI_12	DO_32			
29	DI_13	DO_33			
30	DI_14	DO_34			
31	DI_15	DO_35			
32	DI_16	DO_36			
33	DI_17	DO_37			
34	Reserved	Reserved			
35	Reserved	Reserved			
36	Reserved	Reserved			
37	Reserved	Reserved			
38	Reserved	Reserved			
39	Reserved	Reserved			
40	Reserved	Reserved			
41	Reserved	Reserved			
42	Reserved	Reserved			
43	Reserved	Reserved			
44	Reserved	Reserved			
45	Reserved	Reserved			
46	Reserved	Reserved			
47	Reserved	Reserved			
48	Reserved	Reserved			
49	Reserved	Reserved			

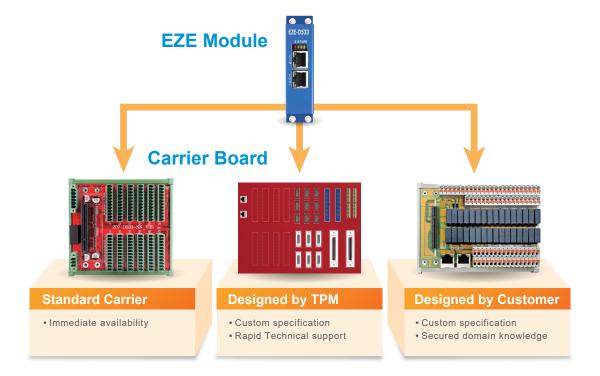
EZE-D533 (48DI48DO)

	Side B	Side A
1	DI_10	DI_30
2	DI_11	DI_31
3	DI_12	DI_32
4	DI_13	DI_33
5	DI_14	DI_34
6	DI_15	DI_35
7	DI 16	DI_36
8	DI 17	DI 37
9	DI 50	DO 70
10	DI 51	DO 71
11	DI_52	DO_72
	Key not	ch
12	DI_53	DO_73
13	DI 54	DO 74
14	DI_55	DO_75
15	DI 56	DO_76
16	DI_57	DO_77
17	DO_90	DO B0
18	DO_91	DO B1
19	DO_92	DO B2
20	DO_93	DO B3
21	DO_94	DO B4
22	DO_95	DO B5
23	DO_96	DO_B6
24	DO_97	DO_B7
25	DI_00	DI_20
26	DI_01	DI_21
27	DI_02	DI_22
28	DI_03	DI_23
29	DI_04	DI_24
30	DI_05	DI_25
31	DI_06	DI_26
32	DI_07	DI_27
33	DI_40	DO_60
34	DI_41	DO_61
35	DI_42	DO_62
36	DI_43	DO_63
37	DI_44	DO_64
38	DI_45	DO_65
39	DI_46	DO_66
40	DI_47	DO_67
41	DO_80	DO_A0
42	DO_81	DO_A1
43	DO_82	DO_A2
44	DO_83	DO_A3
45	DO_84	DO_A4
46	DO_85	DO_A5
47	DO_86	DO_A6
48	DO_87	DO_A7
49	D5V	DGND



Flexible Customization

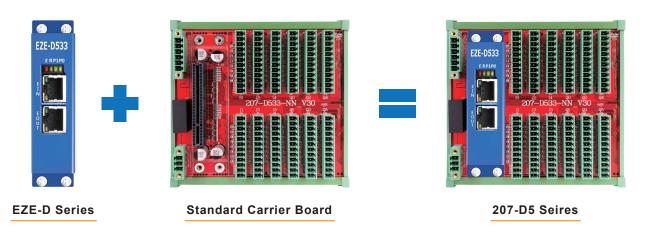
EZE modules can be mounted on a wide range of carrier boards that could be either developed by TPM or by customers with a flexible, cost effective transition from Sub-D, Ribbon Cable and other connectors to terminal blocks.



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

