

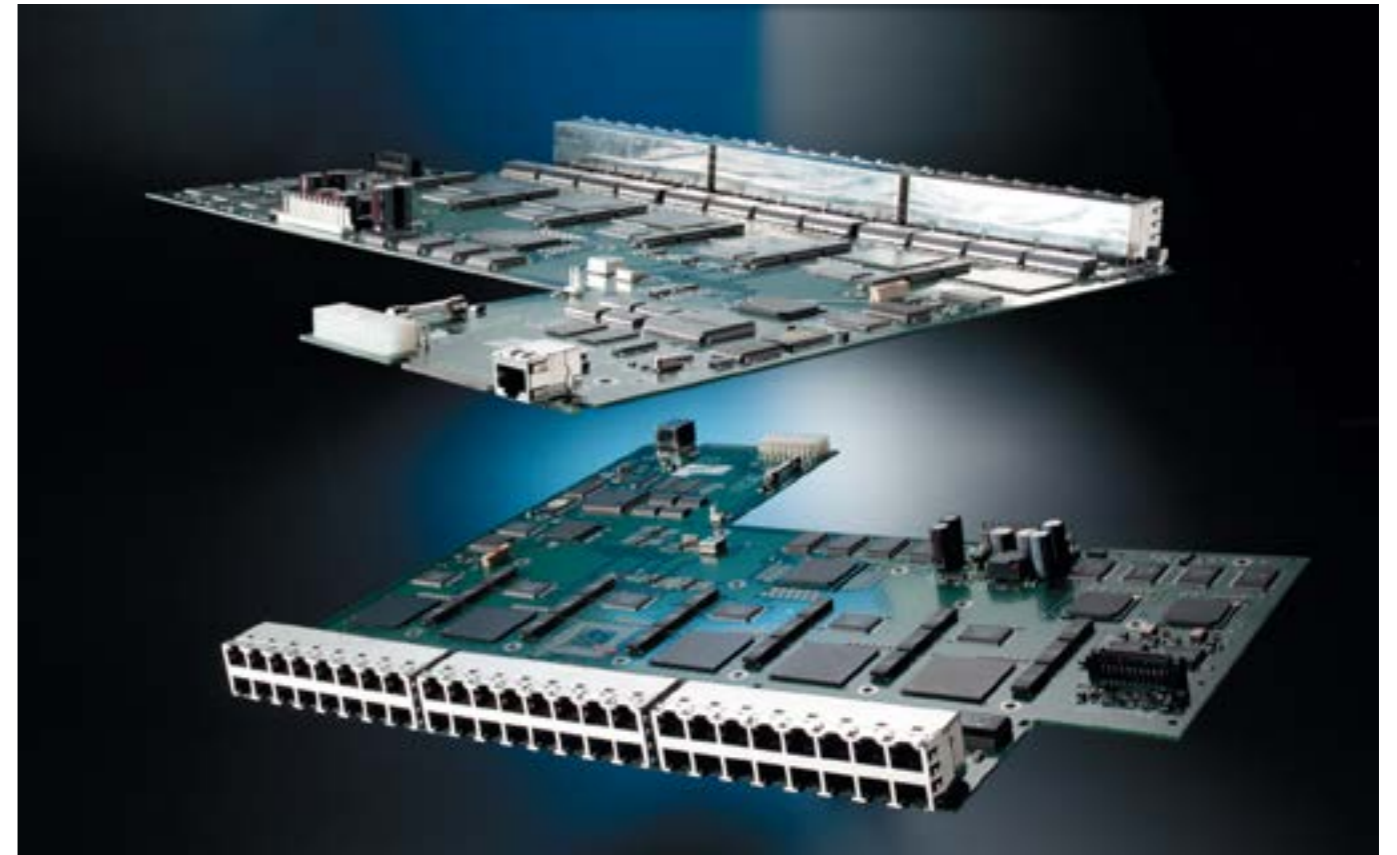
# Modular Jack

产品选型指南



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模块插座连接器作为通信技术的基石，已经在通信和信息行业中广泛应用了很多年。造成这一事实的主要原因是这些产品的简单性和可靠性。无论是集成在简单电话系统中还是千兆以太网应用领域中，模块插座都代表了网络连接的标准，能够以高带宽快速建立可靠的连接。

本指南旨在为ERNI的整个模块插座产品系列提供产品选择方向，从而帮助您找到适合您应用领域的解决方案。

当今的电子系统的封装正变得越来越小，而其性能要求却不断提高。因此，使用内部集成磁性元件的模块插座的应用产品变得越来越流行。当磁性元件（否则会在电路板上发现为分立部件）集成在一起时，会降低干扰敏感度和电路板表面要求。滤波器组件也是集成在一起的，不会改变插座外壳的尺寸。



ERNI提供各种各样的标准模块插座 RJ11/RJ45：

- 无集成磁性元件
- 单端口
- 多端口：堆叠型和成组型
- 弯角式和垂直式版本
- 薄型矮版
- 内联耦合器

- THT
- THR
- SMT
- CAT 3/4, 5, 5e
- LEDs



ERNI提供各种各样的带有集成磁性元件的模块插座：

- 单端口
- 多端口：成组型
- 弯角式和垂直式版本
- 薄型矮版

- 10 BASE T
- 10/100 Mbit/s (快速以太网)
- 10/100/1000 Mbit/s (千兆以太网)
- 以太网供电 (PoE)
- 工业工作环境温度
- 防雷GR-1089-Core
- THT
- LEDs

LED颜色

- Y = 黄色
- G = 绿色
- O = 橙色
- R = 红色



标准模块插座



单端口 - 弯角式 · RJ45

Part Number	Series	Ports	10P10C	8P8C	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	THR	SMT	CAT 3/4	CAT 5	CAT 5e	Tray	T&R	LED	Tab-down	Tab-up	RoHS	3D Model	2D Drawing
133152	MJR	1x1		●					●			●			●			●		●	●	●
133155	MJR	1x1		●		●	●	●	●			●			●			●		●	●	●
133167	MJR	1x1		●		●	●	●	●				●		●			●		●	●	●
133172	MJR	1x1		●		●	●	●	●				●		●			●		●	●	●
133268	MJLS	1x1		●	●	●		●	●			●			●			●		●	●	●
133271	MJLS	1x1		●	●	●	●	●	●			●			●			●		●	●	●
133288	MJLS	1x1		●	●	●	●	●			●	●			●			●		●	●	●
133489	MJLS	1x1		●	●	●	●	●			●	●			●			●		●	●	●
133602	MJLS	1x1		●	●	●		●			●	●			●			●		●	●	●
133611	MJLS	1x1		●	●	●		●			●	●			●			●		●	●	●
133744	MJE	1x1		●		●	●	●	●			●			●			Y-G		●	●	●
133745	MJE	1x1		●		●	●	●	●			●			●			G-Y		●	●	●
133746	MJE	1x1		●		●	●	●	●			●			●			G-G		●	●	●
133747	MJE	1x1		●		●	●	●	●			●			●			Y-Y		●	●	●
133748	MJE	1x1		●		●	●	●	●			●			●			O/G-O/G		●	●	●
133901	MJE	1x1		●		●	●	●	●			●			●			R-G		●	●	●
133902	MJE	1x1		●		●	●	●	●			●			●					●	●	●
133927	MJE	1x1		●		●	●	●	●			●			●			G/O-Y		●	●	●
133936	MJLS	1x1		●	●	●	●	●			●	●			●				●	●	●	●
203422	MJLS	1x1		●	●	●	●	●			●	●			●				●	●	●	●
203489	MJE	1x1		●		●	●	●		●			●		●				●	●	●	●
203490	MJLS	1x1		●	●	●		●			●	●			●				●	●	●	●



单端口 - 垂直式 · RJ45

Part Number	Series	Ports	10P10C	8P8C	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	THR	SMT	CAT 3/4	CAT 5	CAT 5e	Tray	T&R	LED	Tab-down	Tab-up	RoHS	3D Model	2D Drawing
133183	MJV	1x1		●		●		●	●			●			●			n/a	n/a		●	●
133184	MJV	1x1		●		●		●	●			●			●			n/a	n/a		●	●
133188	MJV	1x1	●			●		●	●			●			●			n/a	n/a		●	●

# 模块插座 产品选择指南

## 标准模块插座



多端口 - 弯角式成组型 · RJ45

Part Number	Series	Ports	10P10C	8P8C	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	SMT	CAT 3/4	CAT 5	CAT 5e	Tray	T&R	LED	Tab-down	Tab-up	RoHS	3D Model	2D Drawing
133195	MJR	1x8		●					●		●			●			●		●	●	●
133208	MJR	1x2		●		●	●	●	●		●			●			●		●	●	●
133209	MJR	1x4		●		●	●	●	●		●			●			●		●	●	●
133214	MJR	1x8		●		●	●	●	●		●			●			●		●	●	●
133215	MJR	1x8		●		●	●	●	●		●			●			●		●	●	●
133216	MJR	1x8		●		●	●	●	●		●			●			●		●	●	●
133218	MJR	1x4		●		●	●	●	●		●	●		●			●		●	●	●
133221	MJR	1x6		●		●	●	●	●		●	●		●			●		●	●	●
133222	MJR	1x6		●		●	●	●	●		●	●		●			●		●	●	●
133223	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133225	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133496	MJR	1x4		●		●	●	●	●		●		●	●			●		●	●	●
133539	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133609	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133616	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133618	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133638	MJR	1x2		●		●	●	●	●		●	●		●			●		●	●	●
133671	MJR	1x2		●		●	●	●	●		●	●		●			●		●	●	●
133726	MJR	1x4		●		●	●	●	●		●	●		●			●		●	●	●
133785	MJR	1x6		●		●	●	●	●		●	●		●			●		●	●	●
133786	MJR	1x12		●		●	●	●	●		●	●		●			●		●	●	●
133787	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133919	MJR	1x4		●		●	●	●	●		●	●		●			●		●	●	●
133920	MJR	1x8		●		●	●	●	●		●	●		●			●		●	●	●
133921	MJR	1x2		●		●	●	●	●		●	●		●			●		●	●	●
203492	MJR	1x2		●		●	●	●	●		●	●		●			●		●	●	●



多端口 - 垂直式成组型 · RJ45

Part Number	Series	Ports	10P10C	8P8C	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	SMT	CAT 3/4	CAT 5	CAT 5e	Tray	T&R	LED	Tab-down	Tab-up	RoHS	3D Model	2D Drawing
133775	MJV	1x4		●		●		●	●		●			●			n/a	n/a	●	●	●

# 模块插座 产品选择指南

## 标准模块插座



多端口 - 弯角堆叠型 · RJ45

Part Number	Series	Ports	10P10C	8P8C	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	SMT	CAT 3/4	CAT 5	CAT 5e	Tray	T&R	LED	Tab-down	Tab-up	RoHS	3D Model	2D Drawing
133027	MJD	2x6		●		●		●	●			●		●			●	●	●	●	●
133029	MJD	2x6		●		●	●	●	●			●		●			●	●	●	●	●
133035	MJD	2x8		●		●	●	●	●			●		●			●	●	●	●	●
133037	MJD	2x8		●		●	●	●	●			●		●			●	●	●	●	●
133039	MJD	2x1		●		●	●	●	●			●		●			●	●	●	●	●
133041	MJD	2x2		●		●	●	●	●			●		●			●	●	●	●	●
133044	MJD	2x4		●		●	●	●	●			●		●			●	●	●	●	●
133046	MJD	2x4		●		●	●	●	●			●		●			●	●	●	●	●
133050	MJD	2x6		●		●	●	●	●			●		●			●	●	●	●	●
133051	MJD	2x1		●		●	●	●	●			●		●			●	●	●	●	●
133052	MJD	2x2		●		●	●	●	●			●		●			●	●	●	●	●
133053	MJD	2x3		●		●	●	●	●			●		●			●	●	●	●	●
133054	MJD	2x3		●		●	●	●	●			●		●			●	●	●	●	●
133076	MJD	2x6		●		●	●	●	●			●		●			●	●	●	●	●
133080	MJD	2x8		●		●	●	●	●			●		●			●	●	●	●	●
133673	MJD	2x3		●		●	●	●	●			●		●			●	●	●	●	●
133678	MJD	2x3		●		●	●	●	●			●		●			●	●	●	●	●



多端口 - 垂直堆叠型 · RJ45

Part Number	Series	Ports	10P10C	8P8C	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	SMT	CAT 3/4	CAT 5	CAT 5e	Tray	T&R	LED	Tab-down	Tab-up	RoHS	3D Model	2D Drawing
133190	MJV	2x4		●		●		●	●			●		●			n/a	n/a	●	●	●

## 模块插座 产品选择指南

### 标准模块插座



单端口 - 弯角式 · RJ11

Part Number	Series	Ports	6P6C	6P4C	6P2C	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	SMT	CAT 3/4	CAT 5	CAT 5e	Tray	T&R	LED	Tab-down	Tab-up	Panel Stops	RoHS	3D Model	2D Drawing
133146	MJR	1x1			●					●		●			●			●			●	●	●
133147	MJR	1x1			●					●		●			●			●		●	●	●	●
133148	MJR	1x1		●						●		●			●			●			●	●	●
133149	MJR	1x1		●						●		●			●			●			●	●	●
133150	MJR	1x1	●							●		●			●			●			●	●	●
133151	MJR	1x1	●							●		●			●			●		●	●	●	●
133623	MJLS	1x1	●			●	●	●	●	●		●			●			●			●	●	●
133719	MJLS	1x1	●			●	●	●	●		●				●			●			●	●	●
133776	MJR	1x1	●				●	●	●	●		●			●			●			●	●	●



模块化适配器 - RJ11和RJ45

Part Number	Series	8P8C (RJ45)	6P6C (RJ11)	Shielded	CAT 3/4	CAT 5	RoHS	3D Model	2D Drawing
133414	MJC	●			●		●	●	●
133420	MJC		●	●	●		●	●	●
133421	MJC	●		●	●		●	●	●
133513	MJC	●		●		●	●	●	●

## 模块插座 产品选型指南

### 带有集成磁性元件



采用集成滤波器的模块插座



ERNI公司提供RJ45集成磁性组件连接器，用于满足不同数据传输速率的应用领域，例如10 Mbit/s、10/100 Mbit/s（快速以太网）和10/100/1000 Mbit/s（千兆以太网）。例如，千兆位模块化连接器的推出是旨在满足当今对高速通信应用的需求。其典型的应用领域包括电信/数据通信设备、数据存储设施、个人计算机、网络打印机和外围设备。针对工业用途，例如自动化系统或测试设备，可提供耐高温运行插座以满足更广泛的工作温度范围（-40°C 至 +85°C）要求。

这些配有过滤器组件的连接器的连接器能够提供信号调节功能并提高发射性能。当与连接器集成在一起后，磁性过滤器组件（通常被认为是PCB上的分立表面安装组件）增加了PCB空间并减少了制造工艺流程。带有集成磁性元件的ERNI模块插座专门设计用于直接替代传统的模块插座。

集成磁性元件封装旨在满足FCC和IEEE 802.3针对性能和电压隔离的要求。ERNI公司面向各种不同的应用领域可提供多种尺寸和磁性元件构型解决方案。ERNI模块插座提供标准PCB版图，并具有单端口和成组端口版本。



# 模块插座 产品选择指南

带有集成磁性元件



单端口 - 弯角式 (带有集成磁性元件)

Part Number	Magnetics Code	10 Mbit/s	10/100 Mbit/s	10/100 Mbit/s Power over Ethernet	10/100 Mbit/s High Operating Temp.	10/100 Mbit/s Lightning Protection	10/100/1000 Mbit/s	Ports	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	LED	Tab-down	Tab-up	Tube	RoHS	3D Model	2D Drawing
133723	M3D01		●					1x1		●	●	●	●		●		●	●		●
203150	M2A01	●						1x1		●	●	●	●		●		●	●		●
203151	M3B01		●					1x1		●	●	●	●		●		●	●		●
203176	M6A01			●				1x1		●	●	●	●		●		●	●		●
203189	M5B01						●	1x1		●	●	●	●		●		●	●		●
203191	M3D01		●					1x1		●	●	●	●	Y-G	●		●	●		●
203192	M3D01		●					1x1		●	●	●	●	Y-G	●		●	●		●
203198	M3D01		●					1x1		●	●	●	●	Y-G	●		●	●		●
203199	M3D01		●					1x1		●	●	●	●	G-Y	●		●	●		●
203200	M3D01		●					1x1		●	●	●	●	G-G	●		●	●		●
203201	M3D01		●					1x1		●	●	●	●	R-G	●		●	●		●
203202	M3D01		●					1x1		●	●	●	●	Y-Y	●		●	●		●
203203	M3D01		●					1x1		●	●	●	●	O/G-O/G	●		●	●		●
203211	M5B01						●	1x1		●	●	●	●	Y-G	●		●	●		●
203212	M5B01						●	1x1		●	●	●	●	G-Y	●		●	●		●
203213	M5B01						●	1x1		●	●	●	●	G-G	●		●	●		●
203214	M5B01						●	1x1		●	●	●	●	Y-Y	●		●	●		●
203215	M5B01						●	1x1		●	●	●	●	O/G-O/G	●		●	●		●
203217	M5B02						●	1x1		●	●	●	●		●		●	●		●
203224	M5B02						●	1x1		●	●	●	●	Y-G	●		●	●		●
203225	M5B02						●	1x1		●	●	●	●	G-Y	●		●	●		●
203226	M5B02						●	1x1		●	●	●	●	G-G	●		●	●		●
203227	M5B02						●	1x1		●	●	●	●	Y-Y	●		●	●		●
203228	M5B02						●	1x1		●	●	●	●	O/G-O/G	●		●	●		●
203267	M5A01						●	1x1		●	●	●	●		●		●	●		●
203273	L3D01				●			1x1		●	●	●	●		●		●	●		●
203278	M3D01		●					1x1		●	●	●	●	G-G	●		●	●		●
203281	M3D01		●					1x1		●	●	●	●		●		●	●		●
203290	H3D01				●			1x1		●	●	●	●	G-G	●		●	●		●
203292	M3D01		●					1x1		●	●	●	●	G-Y	●		●	●		●
203318	M6A01			●				1x1		●	●	●	●	Y-G	●		●	●		●
203319	M6A01			●				1x1		●	●	●	●	G-Y	●		●	●		●
203320	M6A01			●				1x1		●	●	●	●	G-G	●		●	●		●
203321	M6A01			●				1x1		●	●	●	●	G-R	●		●	●		●
203322	M6A01			●				1x1		●	●	●	●	O/G-O/G	●		●	●		●
203329	T3D01				●			1x1		●	●	●	●	Y-G	●		●	●		●
203330	T3D01				●			1x1		●	●	●	●	G-Y	●		●	●		●
203331	T3D01				●			1x1		●	●	●	●	G-G	●		●	●		●
203332	T3D01				●			1x1		●	●	●	●	G-R	●		●	●		●
203333	T3D01				●			1x1		●	●	●	●	O/G-O/G	●		●	●		●
203338	H3D01				●			1x1		●	●	●	●		●		●	●		●
203348	M5B01						●	1x1		●	●	●	●	Y-G		●	●	●		●
203349	M5B01						●	1x1		●	●	●	●	G-Y		●	●	●		●

# 模块插座 产品选择指南

带有集成磁性元件



单端口 - 弯角式 (带有集成磁性元件)

Part Number	Magnetics Code	10 Mbit/s	10/100 Mbit/s	10/100 Mbit/s Power over Ethernet	10/100 Mbit/s High Operating Temp.	10/100 Mbit/s Lightning Protection	10/100/1000 Mbit/s	Ports	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	LED	Tab-down	Tab-up	Tube	RoHS	3D Model	2D Drawing
203350	M5B01						●	1x1		●	●	●	●	G-G		●	●	●		●
203351	M5B01						●	1x1		●	●	●	●	G-R		●	●	●		●
203352	M5B01						●	1x1		●	●	●	●	O/G-O/G		●	●	●		●
203354	M3D01		●					1x1		●	●	●	●	Y-G		●	●	●		●
203355	M3D01		●					1x1		●	●	●	●	G-Y		●	●	●		●
203356	M3D01		●					1x1		●	●	●	●	G-G		●	●	●		●
203357	M3D01		●					1x1		●	●	●	●	G-R		●	●	●		●
203358	M3D01		●					1x1		●	●	●	●	O/G-O/G		●	●	●		●
203437	M5C03						●	1x1	●	●	●	●	●	G-Y	●		●	●		●
203503	M5C03				●			1x1		●	●	●	●		●		●	●		●



单端口 - 垂直式 (带有集成磁性元件)

Part Number	Magnetics Code	10 Mbit/s	10/100 Mbit/s	10/100 Mbit/s Power over Ethernet	10/100 Mbit/s High Operating Temp.	10/100 Mbit/s Lightning Protection	10/100/1000 Mbit/s	Ports	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	LED	Tab-down	Tab-up	Tube	RoHS	3D Model	2D Drawing
203283	M3D01		●					1x1		●		●	●		n/a	n/a	●	●		●
203323	M3D01		●					1x1		●		●	●	Y-G	n/a	n/a	●	●		●
203324	M3D01		●					1x1		●		●	●	G-Y	n/a	n/a	●	●		●
203325	M3D01		●					1x1		●		●	●	G-G	n/a	n/a	●	●		●
203326	M3D01		●					1x1		●		●	●	G-R	n/a	n/a	●	●		●
203327	M3D01		●					1x1		●		●	●	O/G-O/G	n/a	n/a	●	●		●
203342	M5B01						●	1x1		●		●	●	Y-G	n/a	n/a	●	●		●
203343	M5B01						●	1x1		●		●	●	G-Y	n/a	n/a	●	●		●
203344	M5B01						●	1x1		●		●	●	G-G	n/a	n/a	●	●		●
203345	M5B01						●	1x1		●		●	●	G-R	n/a	n/a	●	●		●
203346	M5B01						●	1x1		●		●	●	O/G-O/G	n/a	n/a	●	●		●
203497	M3F01		●					1x1		●		●	●	Y-G	n/a	n/a	●	●		●
203501	H3D02				●			1x1		●		●	●		n/a	n/a	●	●		●

# 模块插座 产品选择指南

带有集成磁性元件



多端口 - 弯角式成组型 ( 带有集成磁性元件 )

Part Number	Magnetics Code	10 Mbit/s	10/100 Mbit/s	10/100 Mbit/s Power over Ethernet	10/100 Mbit/s High Operating Temp.	10/100 Mbit/s Lightning Protection	10/100/1000 Mbit/s	Ports	Low Profile	Shielded	Panel Flanges	Grounding Pins	THT	LED	Tab-down	Tab-up	Tube	RoHS	3D Model	2D Drawing
203153	M2A01	●						1x2		●	●	●	●		●		●	●		●
203154	M3B01		●					1x2		●	●	●	●		●		●	●		●
203156	M3D01		●					1x2		●	●	●	●		●		●	●		●
203157	M2A01	●						1x4		●	●	●	●		●		●	●		●
203158	M3B01		●					1x4		●	●	●	●		●		●	●		●
203160	M3D01		●					1x4		●	●	●	●		●		●	●		●
203177	MM001			●				1x2		●	●	●	●		●		●	●		●
203184	M5B01						●	1x2		●	●	●	●		●		●	●		●
203185	M5B01						●	1x4		●	●	●	●		●		●	●		●
203218	M5B02						●	1x2		●	●	●	●		●		●	●		●
203219	M5B02						●	1x4		●	●	●	●		●		●	●		●
203272	M5B01						●	1x4		●	●	●	●	G-Y	●		●	●		●
203280	M6B01			●				1x2		●	●	●	●		●		●	●		●
203282	M3D01		●					1x4		●	●	●	●	Y-Y	●		●	●		●
203294	M3D01		●					1x4		●	●	●	●	Y-G	●		●	●		●
203295	M3D01		●					1x4		●	●	●	●	G-Y	●		●	●		●
203296	M3D01		●					1x4		●	●	●	●	G-G	●		●	●		●
203297	M3D01		●					1x4		●	●	●	●	G-R	●		●	●		●
203298	M3D01		●					1x4		●	●	●	●	R-G	●		●	●		●
203299	M3D01		●					1x4		●	●	●	●	O/G-O/G	●		●	●		●
203301	M5B01						●	1x4		●	●	●	●	Y-G	●		●	●		●
203302	M5B01						●	1x4		●	●	●	●	G-G	●		●	●		●
203303	M5B01						●	1x4		●	●	●	●	G-R	●		●	●		●
203304	M5B01						●	1x4		●	●	●	●	O/G-O/G	●		●	●		●
203306	M5B01						●	1x2		●	●	●	●	Y-G	●		●	●		●
203307	M5B01						●	1x2		●	●	●	●	G-Y	●		●	●		●
203308	M5B01						●	1x2		●	●	●	●	G-G	●		●	●		●
203309	M5B01						●	1x2		●	●	●	●	G-R	●		●	●		●
203310	M5B01						●	1x2		●	●	●	●	O/G-O/G	●		●	●		●
203312	M3D01		●					1x2		●	●	●	●	Y-G	●		●	●		●
203313	M3D01		●					1x2		●	●	●	●	G-Y	●		●	●		●
203314	M3D01		●					1x2		●	●	●	●	G-G	●		●	●		●
203315	M3D01		●					1x2		●	●	●	●	G-R	●		●	●		●
203316	M3D01		●					1x2		●	●	●	●	O/G-O/G	●		●	●		●
203340	H3D01				●			1x4		●	●	●	●	G-G	●		●	●		●

# 模块插座 产品选型指南

带有集成磁性元件



为您提供满足多种应用领域的完美解决方案



ERNI公司推出的带有集成磁性元件的模块插座与业界知名制造商的常见PHY芯片都是兼容的。

除了遵循芯片组制造商的建议外，您还可以在ERNI网站上找到用于选择合适的磁件电路的参考指南。如若在ERNI网站上未能找到满足您应用领域的理想解决方案，请联系您的ERNI客户代表。







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联络合适的联系人。