

Connect the world, link the future

A large graphic on the right side of the page. It consists of a circular network of blue dots connected by thin lines, resembling a globe or a complex circuit. In the center of this network is a white circle containing the text "Product Catalog" in a bold, white, sans-serif font.

Product Catalog

Contact

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Who is B-TOP?

Dongguan BroadTop Electronic Technology Co., Ltd. located in Dongguan Guangdong China, which is a professional and leading China manufacturer of RJ45 connectors offering high quality products at a competitive price.

We engaged in designing, manufacturing and marketing the connectors for Ethernet networking applications, main products including: Integrated (RJ45) Connector Module (ICM), RJ45 Jack without magnetics, RJ45 with USB and SFP Cage & Connector.

Production and Factory

All of our products is RoHS complied, and our company passed the audit for ISO9001:2015 standard certification, and we passed its renewal audit each year.

Our factory occupies an area of more than 1,200 m^2 . There are 10 professional assembly lines and about 150 skilled employees in the factory, and there are punch workshop, injection workshop and automatic plug-in workshop to supply most of the parts and components by ourselves.

R&D and Quality

We have an excellent R&D team, we've aquired plenty patents on RJ45 Jack Connectors. We successfully developed 2*N PoE/PoE+ series, SMT series, Low-profile series, RJ45+USB series and more.

Our quality mission is to provide products and services using established quality standards and to meet or exceed customer expectations. To fulfill this objective, we strive to produce components and assemblies that embody optimum levels of reliability and performance in their design, manufacture, and delivery.

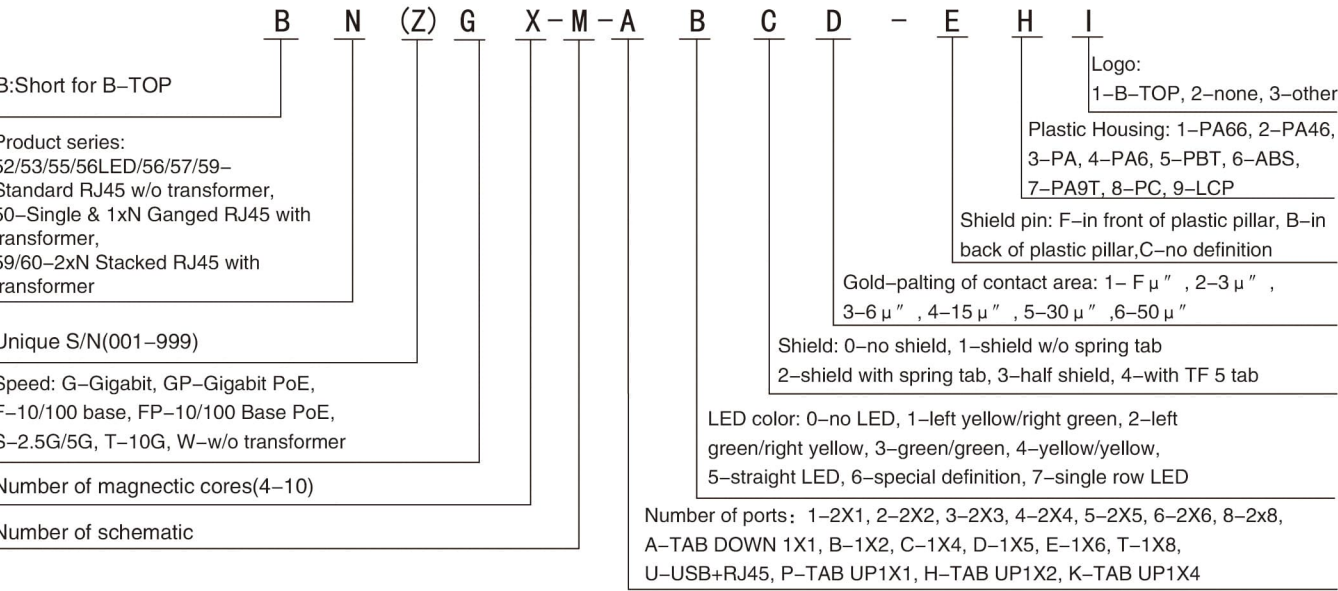
Company Mission

We are building a one stop top ethernet component supply station, by providing various kinds of RJ45 Connectors and SFP Module. We believe what we do is connecting the world and the future.

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Part Number Rules



Electrical

RoHS peak wave solder temperature rating 235°C
High performance for maximum EMI suppression
350uH min OCL with 8mA bias current
PoE/PoE+ available with 48V, 15W/30W/60W

Mechanical

Jack cavity confirms to FCC rules and regulations, part 68 subpart F.

Insertion Force:	2contacts - 350g 4 contacts - 500g 6 contacts - 750 8 contacts - 900g 10 contacts - 1050g
Retention Strength:	7.7kg between jack and plug
Durability:	750 mating cycles min

Material

Housing:	1.glass filled PA66(ul 94v-0) 2.glass filled PA46(ul 94v-0) 3.glass filled PBT(ul 94v-0)
Spring Wire:	1.45mm dia phosphor bronze gold plating over nickel 2.0.35mm thickness phosphor bronze alloy, selective gold plating over nickel
Shield:	0.2mm thickness copper alloy with tin plated
Gold Plating:	3μ",6μ",15μ",30μ",50μ"

Working Temperature: 0 - 70°C, -40 - 85°C

Storage Temperature: -40 - 85°C

Tolerances unless otherwise specified: 0~10±0.15,10~20±0.15,20~40±0.15,40~70±0.15,≥70±0.15,

Electrical Specifications at 25°C

Transmit	Cores	LCR	HI-POT	IL	RL(load 100Ω)	CT
10/100	4~6	TR/Lx/CP/DCR/PS/LK/BL/Cww	1500VAC 0.5mA 3S	1~100MHz -1.0dB MAX	1~30 MHz -18dB min. 30~60MHz -16dB min. 60~80MHz -12dB min.	1~100MHz-35dBMin
10/100/1000	8~12	TR/Lx/CP/DCR/PS/LK/BL/Cww	1500VAC 0.5mA 3S	1~125MHz -1.2dB MAX	1~30 MHz -18dB min. 30~60MHz -16dB min. 60~80MHz -12dB min. 80~100MHz-10dB min	1~100MHz-30dBMin
2.5G	8	TR/Lx/CP/DCR/PS/LK/BL/Cww	1500VAC 0.5mA 3S	1~125MHz -1.2dB MAX 125~250MHz -3.0dB MAX	1~40 MHz -16dBmin 40~80MHz -14dBmin 80~100MHz -12dB min 100~125MHz -10dBmin 125~250MHz -8dB min	1~250MHz-30dBMin
5G	8	TR/Lx/CP/DCR/PS/LK/BL/Cww	1500VAC 0.5mA 3S	1~125MHz -1.2dB MAX 125~250MHz -3.0dB MAX	1~40 MHz -16dBmin 40~80MHz -14dBmin 80~100MHz -12dB min 100~125MHz -10dBmin 125~250MHz -8dB min	1~500MHz-30dBMin
10G	8	TR/Lx/CP/DCR/PS/LK/BL/Cww	1500VAC 0.5mA 3S	1~125MHz -1.2dB MAX 125~650MHz -3.0dB MAX	1~40 MHz -18dBmin 40~400MHz -8dBmin 400~500MHz -5dB min	1~500MHz-30dBMin

LED Color & Polarity

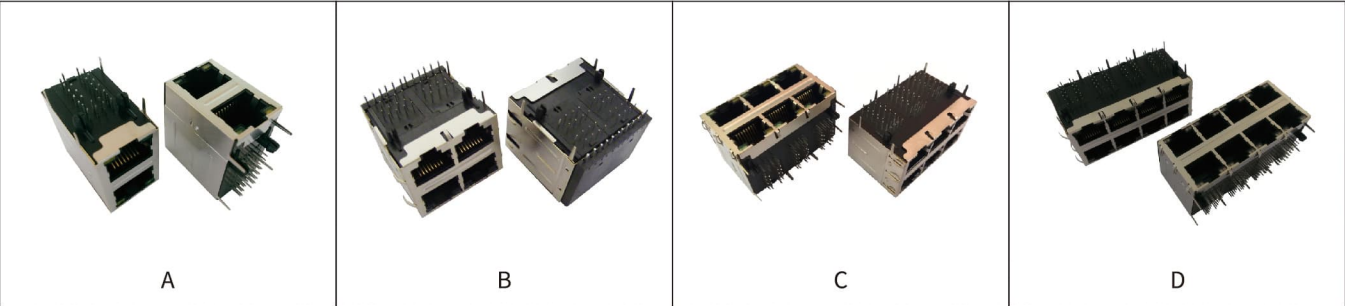
B	LEFT LED	RIGHT LED
1	YELLOW	GREEN
2	GREEN	YELLOW
3	GREEN	GREEN
4	YELLOW	YELLOW
5		
6		
7		

LED Specification

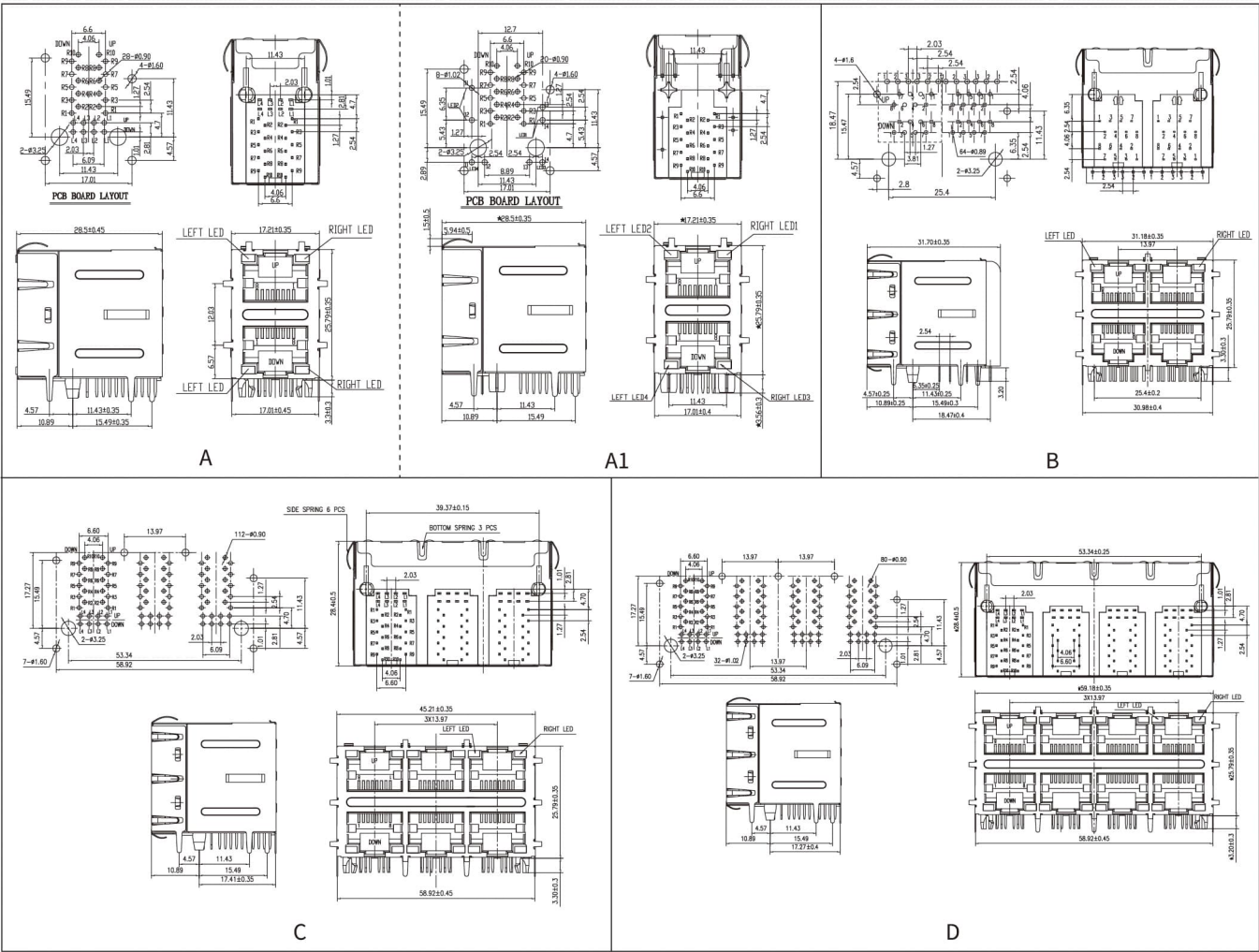
Standard LED Color	LED Wavelength	Forward(V MAX)	Typical(V TYP)	Luminous Intensity
Green	560-580nm	2.5V	2.1-2.2V	9-25MCD
Yellow	580-610nm	2.5V	2.1-2.2V	9-30MCD
Orange	580-610nm	2.5V	2.1-2.2V	50-100MCD

- 1.LED intensity/wavelength measured with Photo Research PR-650 Colormeter
2.With a forward current of 20 mA,Absolute Maximum Ratings(Ta=25°C)

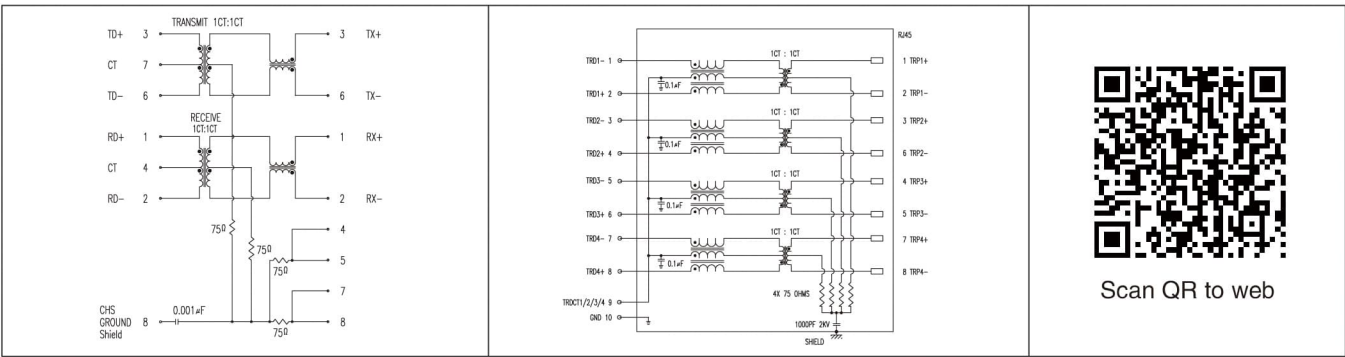
2xN Magnetic RJ45 Jack Connector



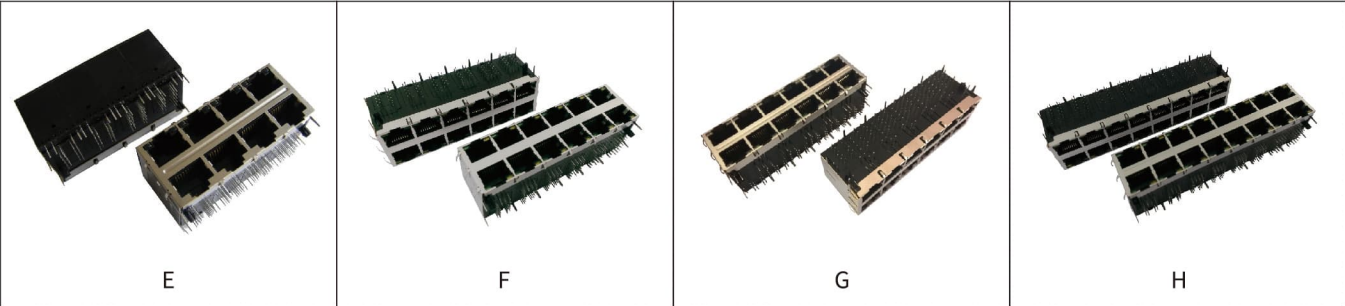
Mechanical



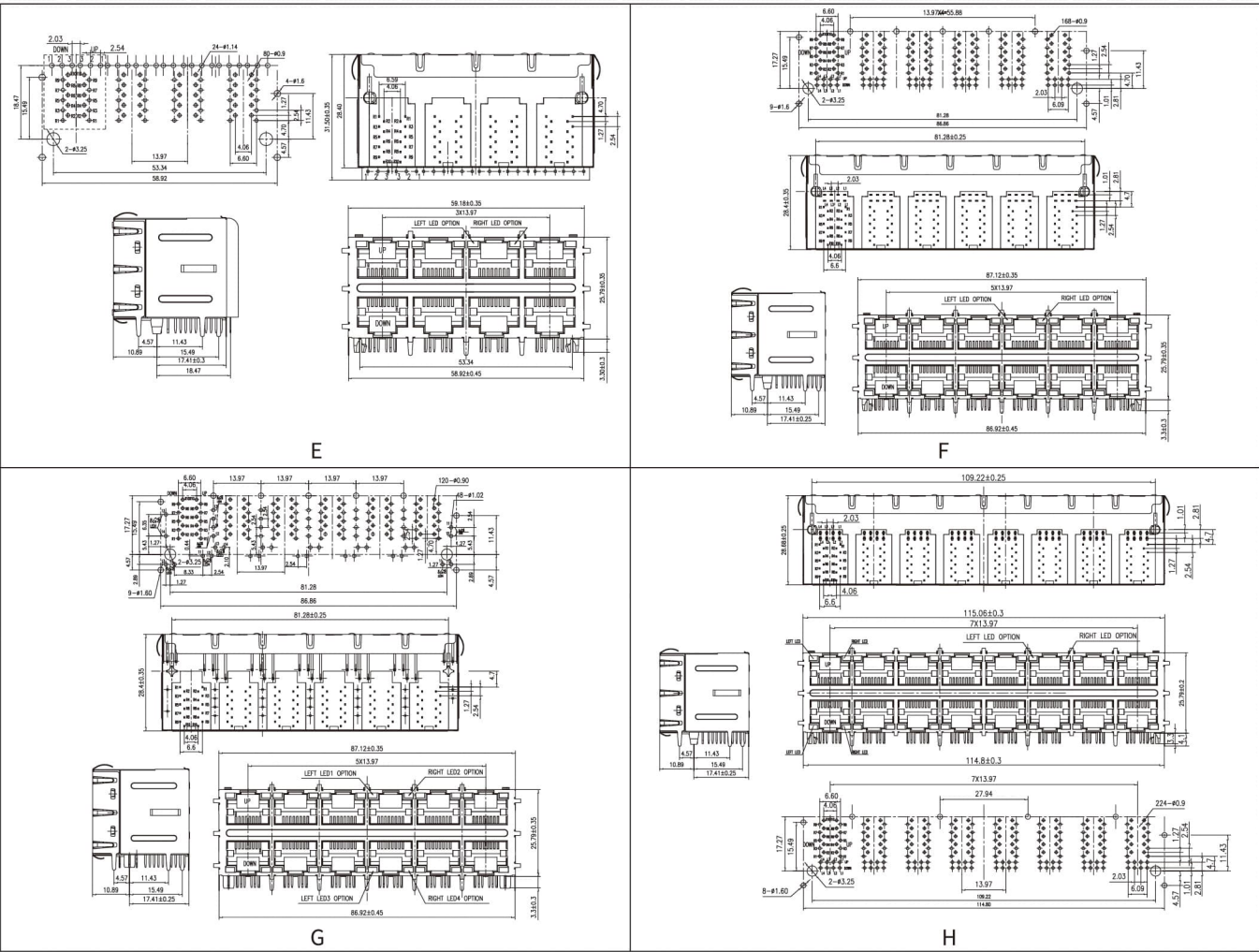
Schematic



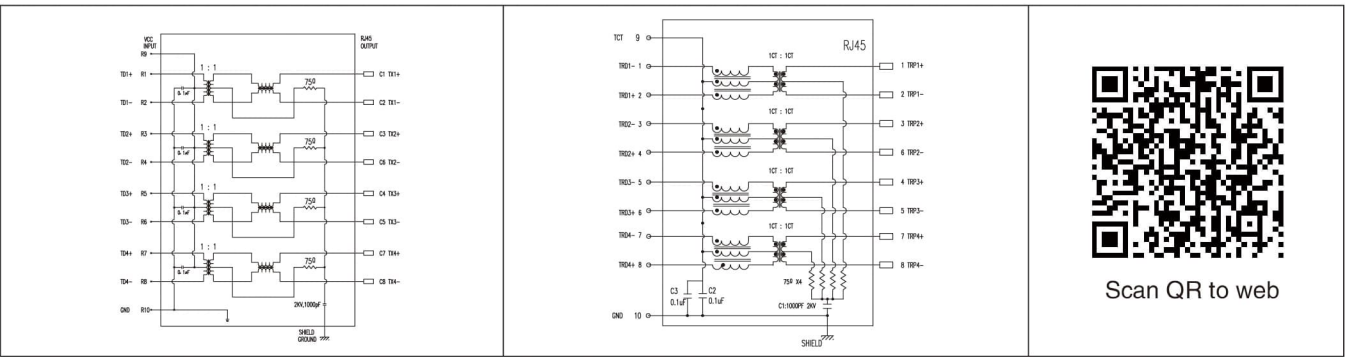
2xN Magnetic RJ45 Jack Connector



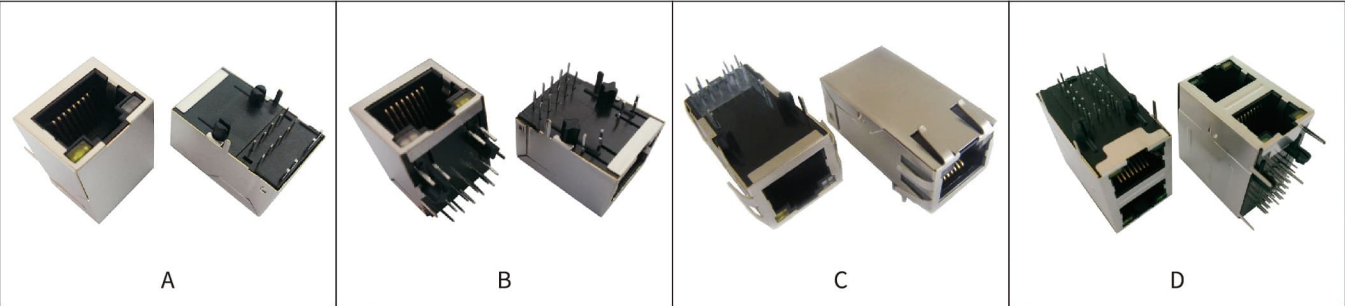
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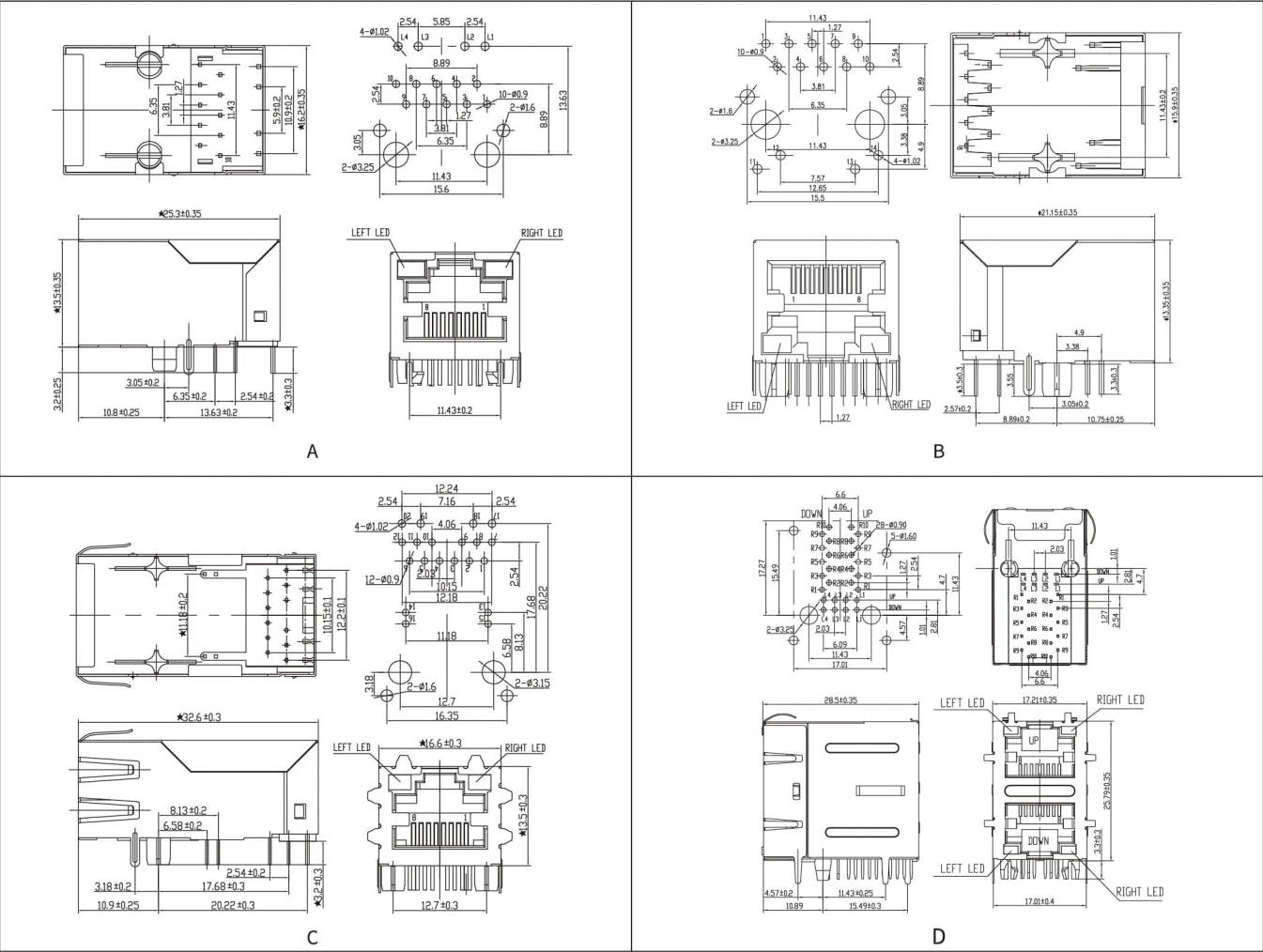
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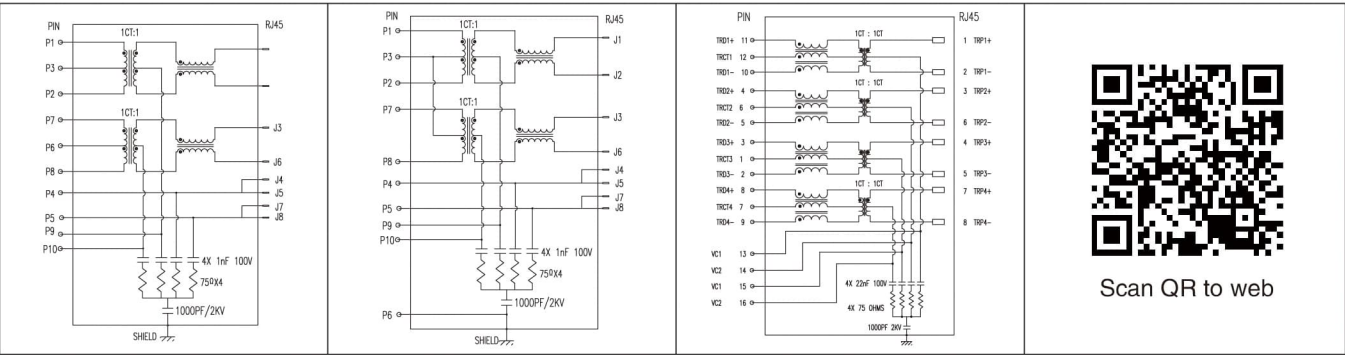
PoE / PoE+ RJ45 Jack Connector



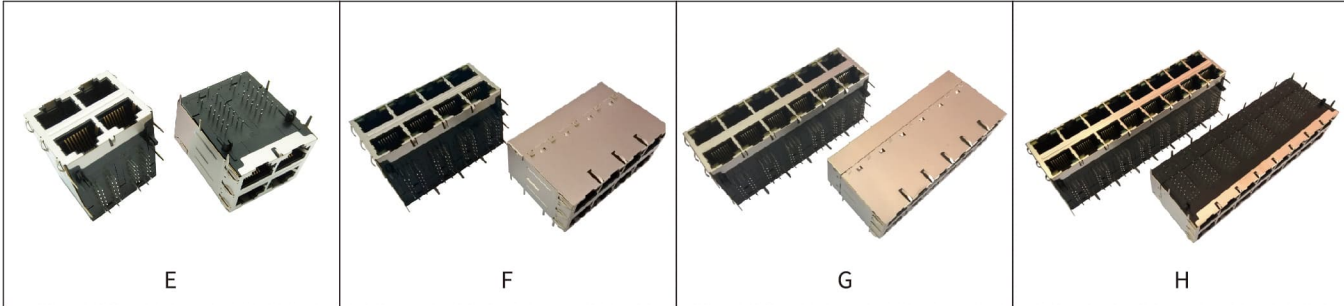
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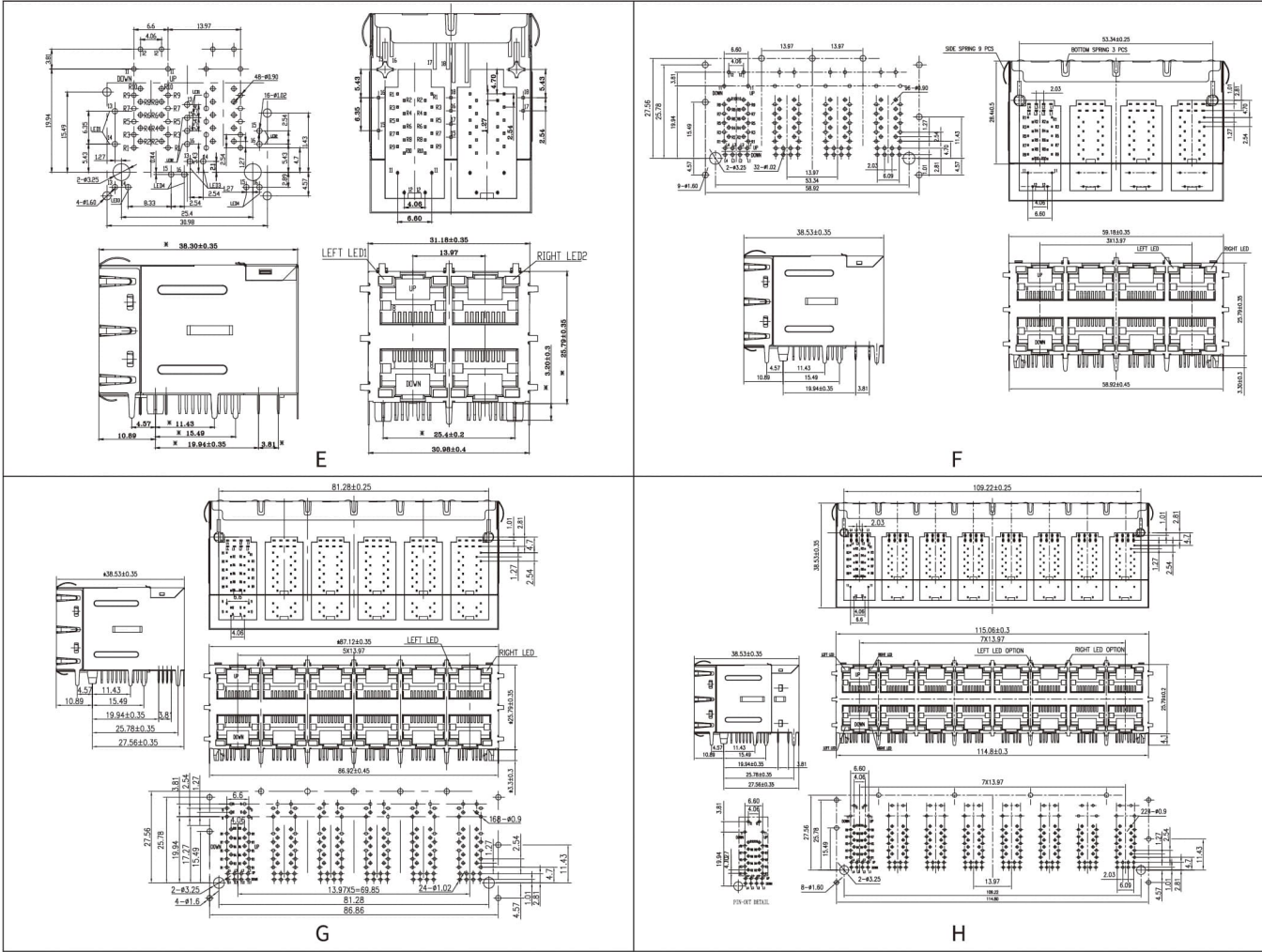
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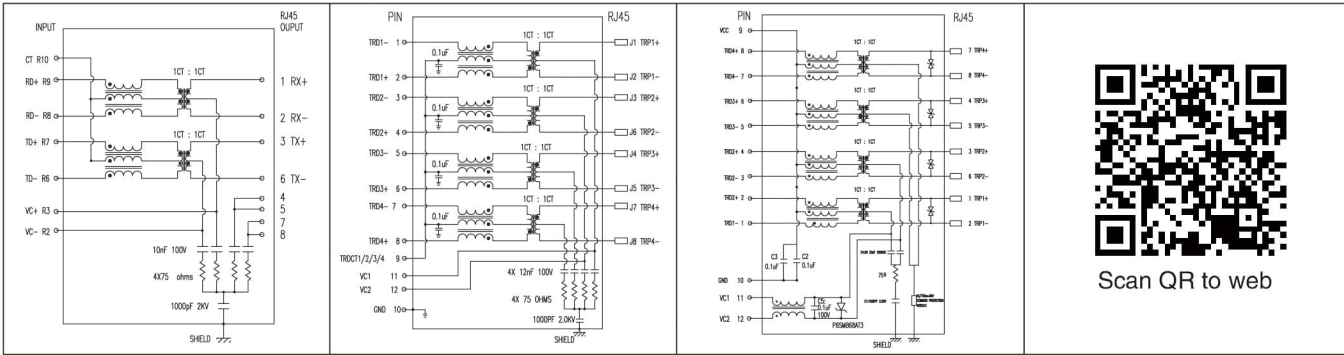
PoE / PoE+ RJ45 Jack Connector



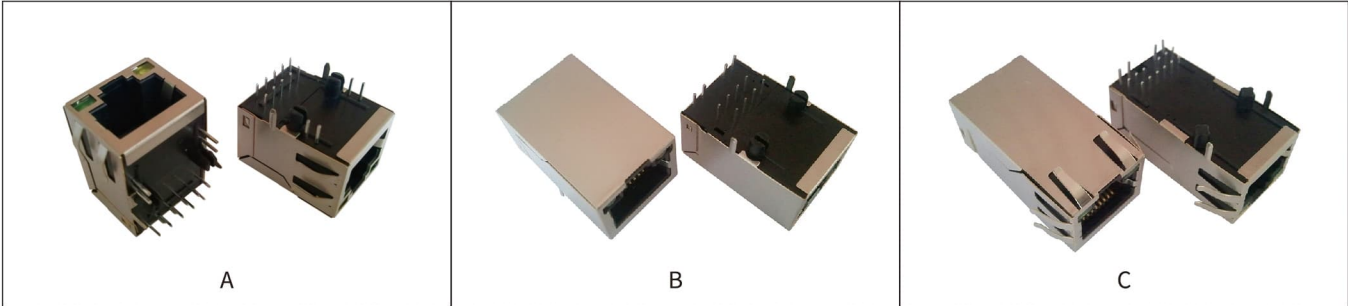
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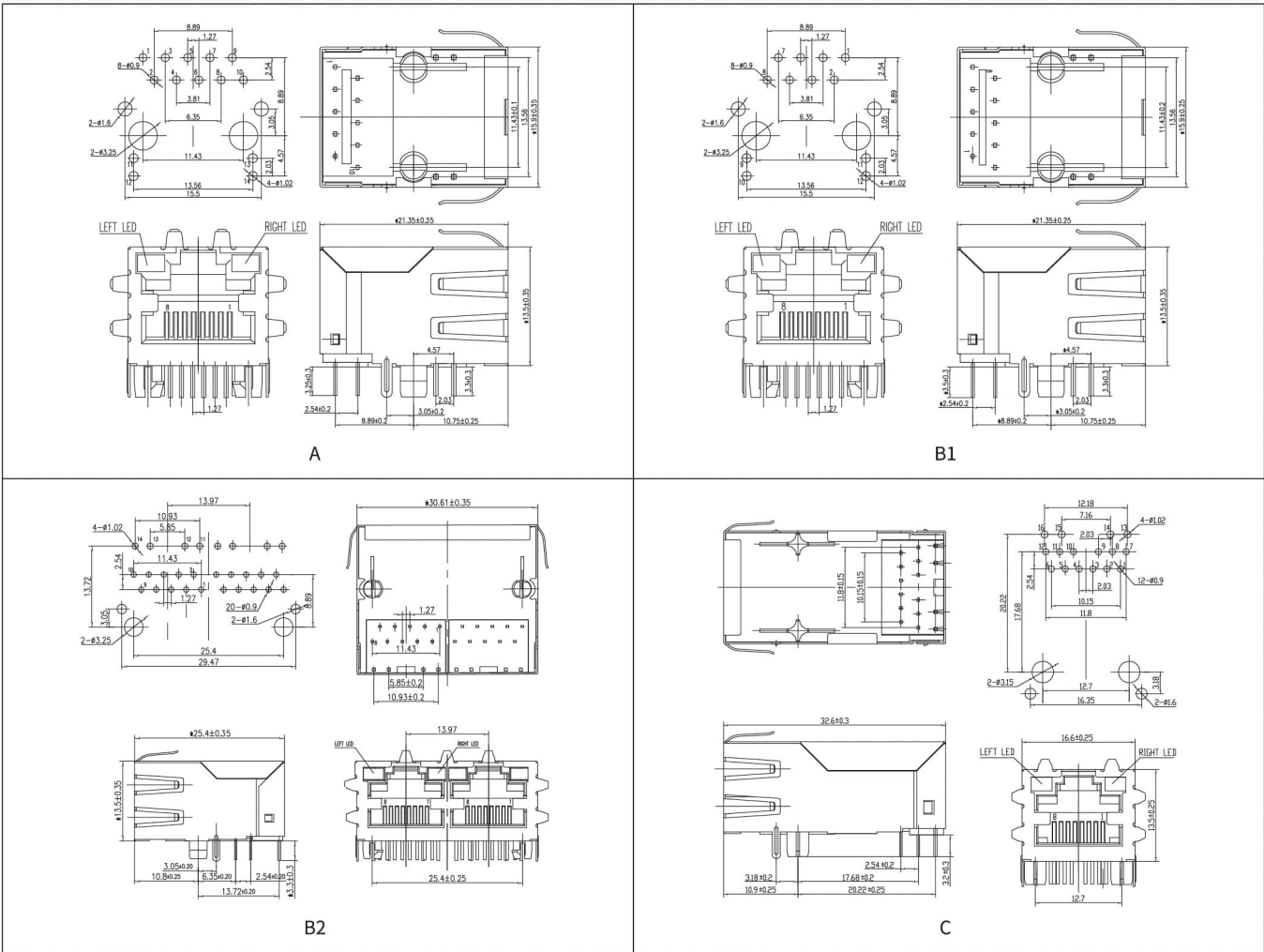
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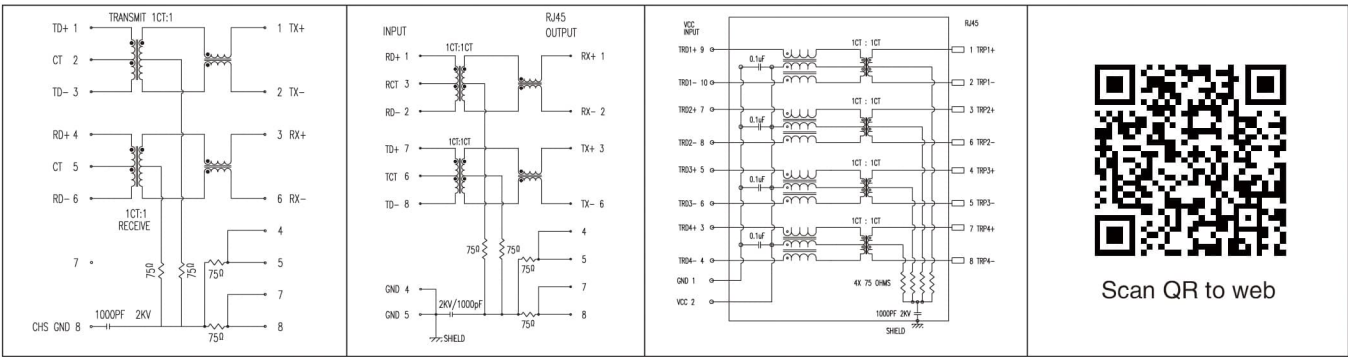
1xN Tab Up Magnetic RJ45 Jack



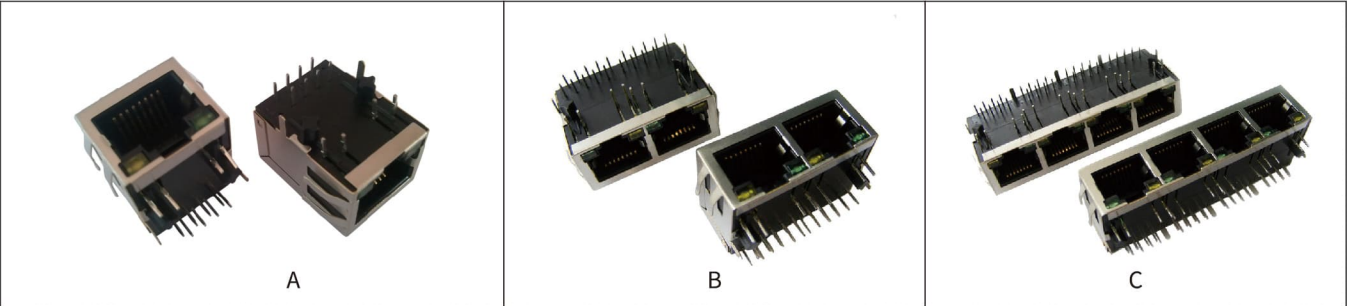
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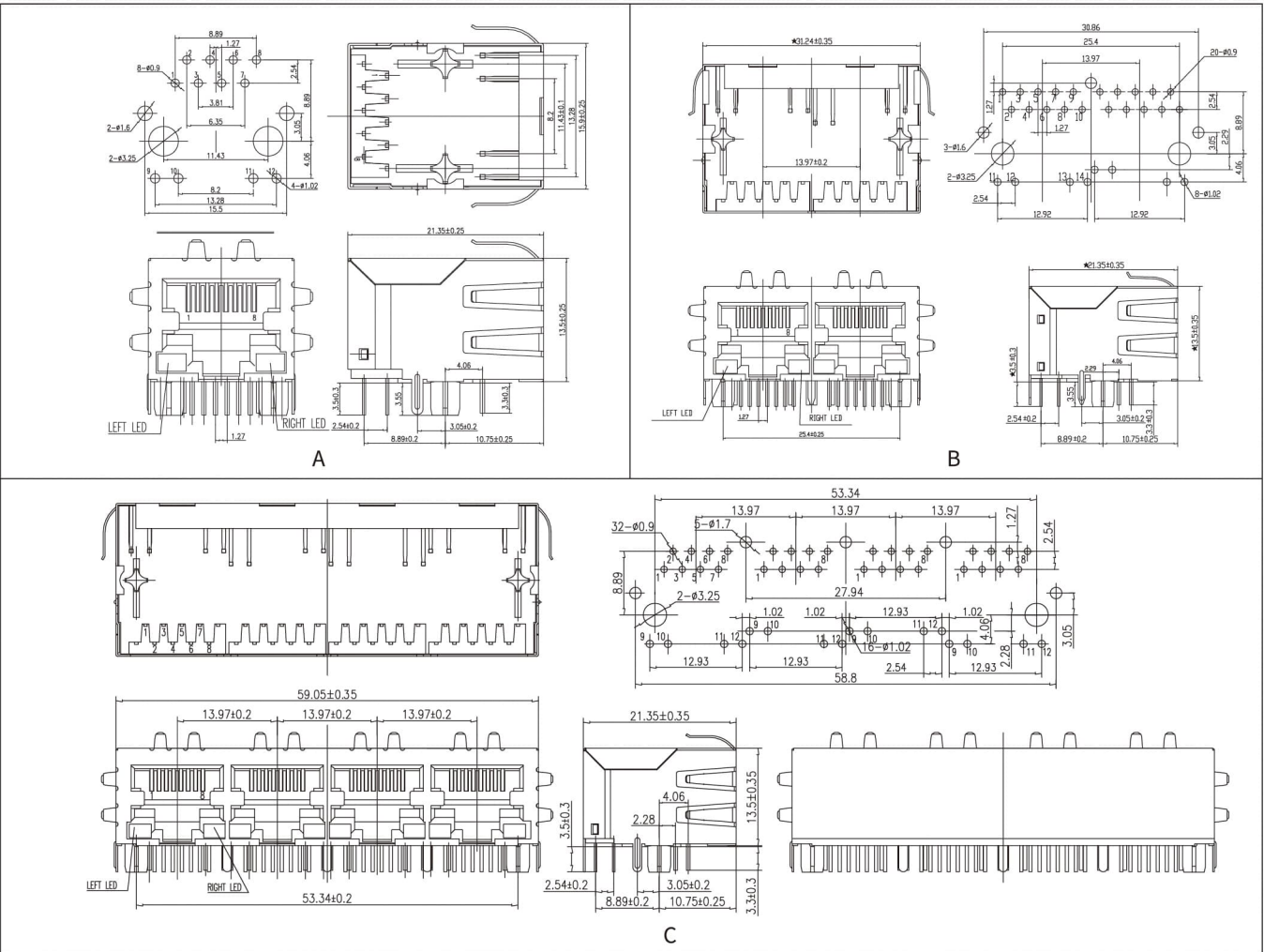
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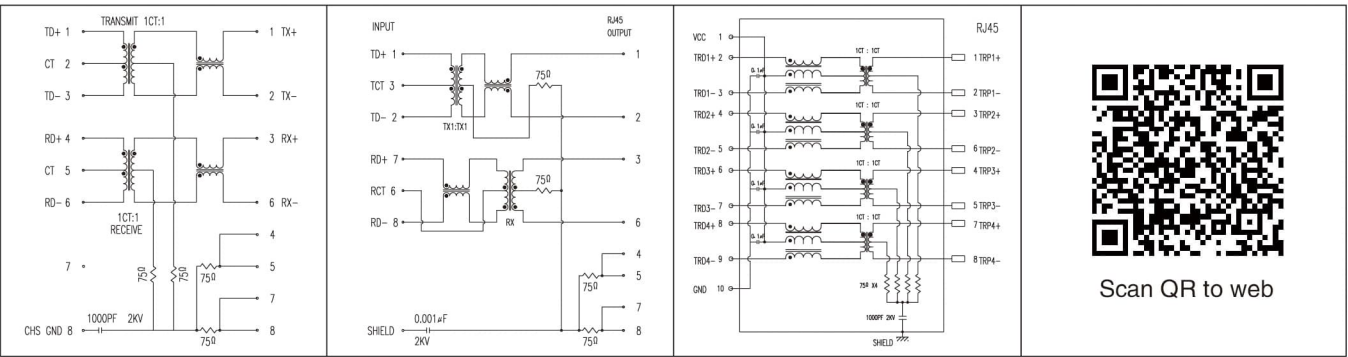
1xN Tab Down Magnetic RJ45 Jack



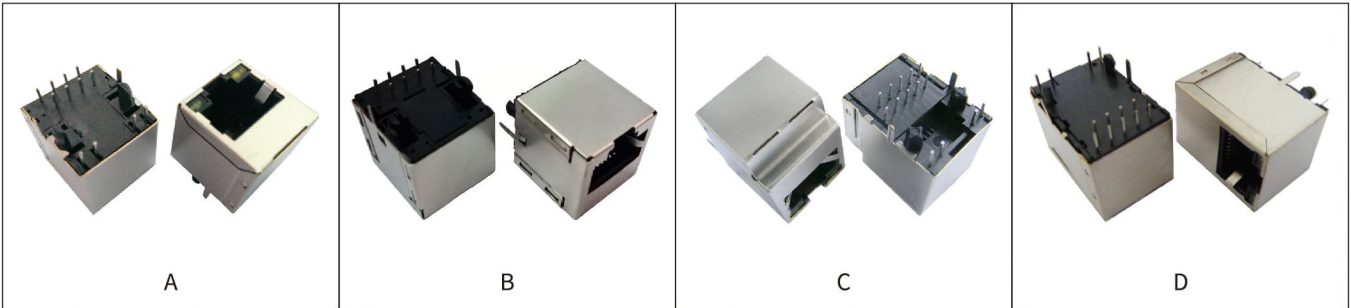
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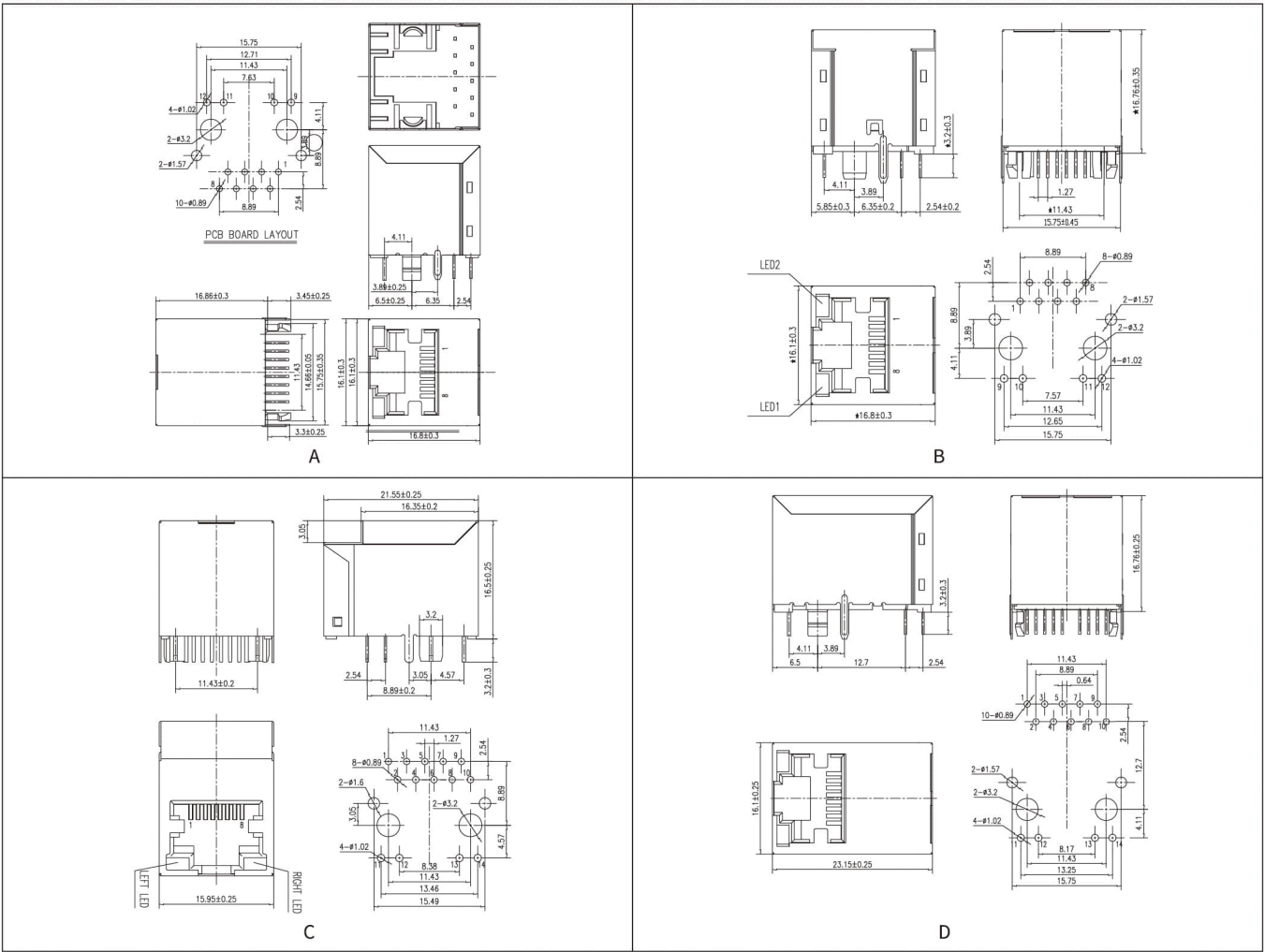
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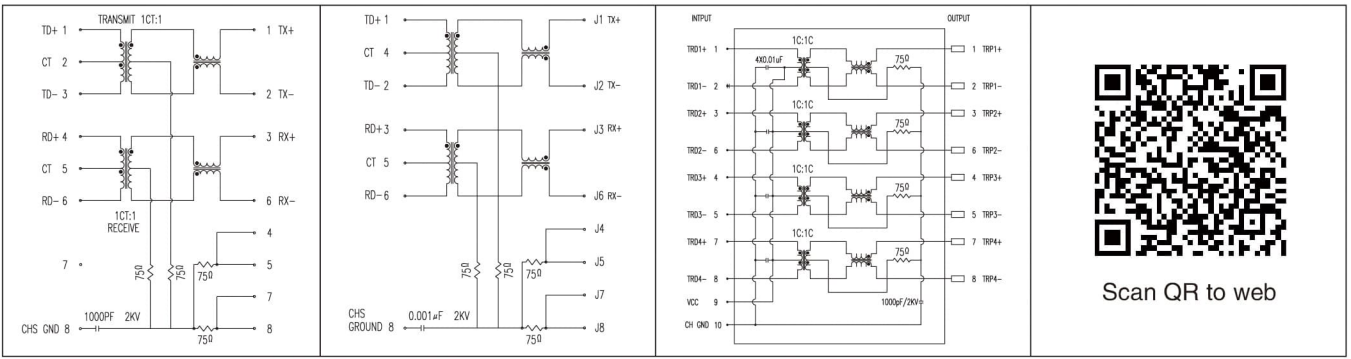
Vertical RJ45 Integrated Jack



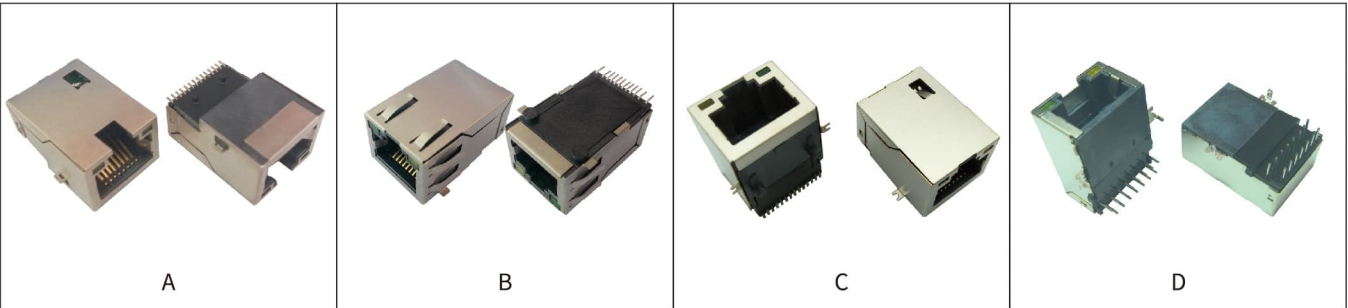
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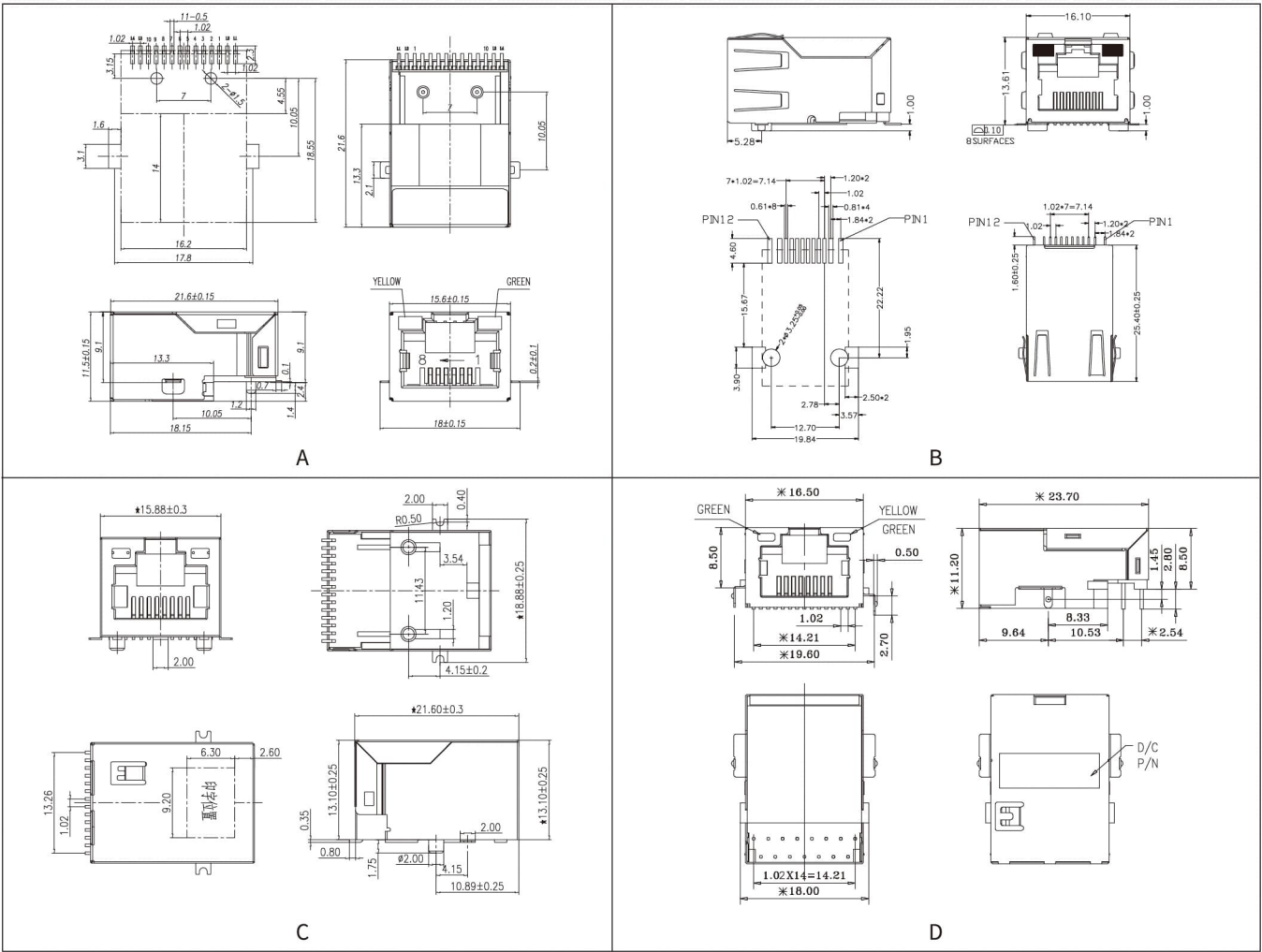
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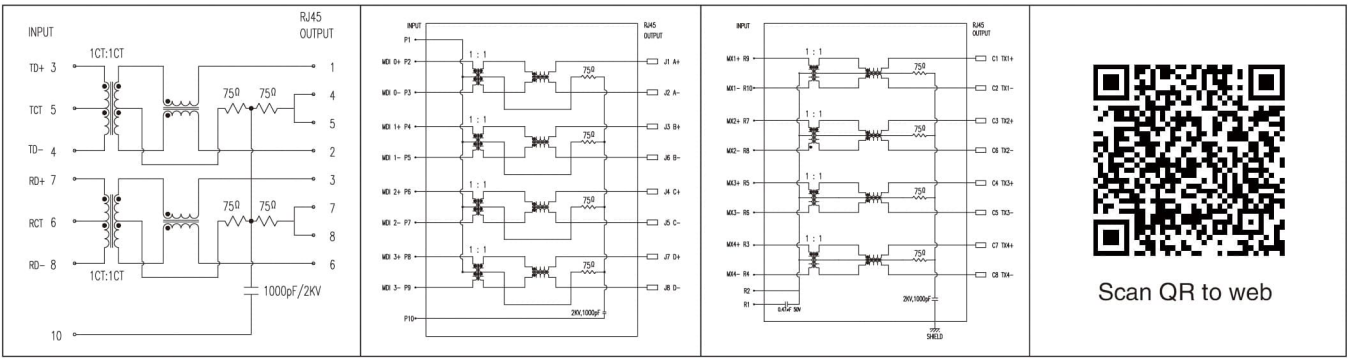
Low-profile & SMT RJ45 Jack



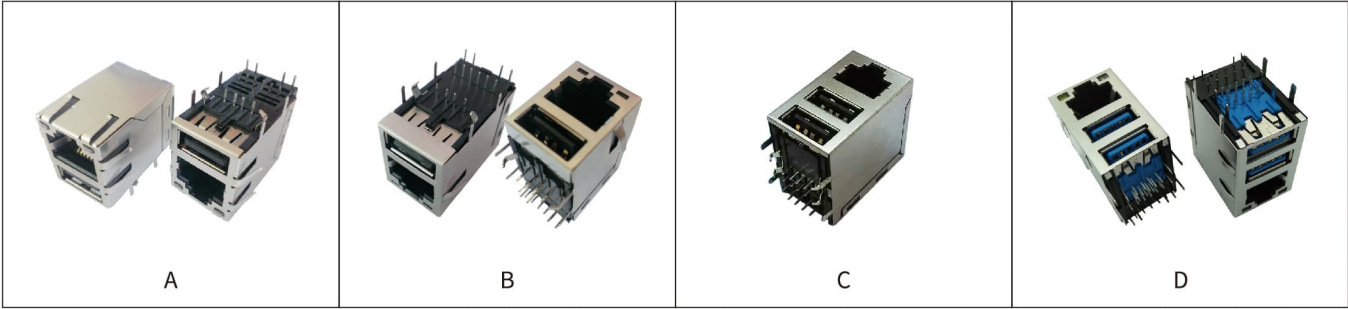
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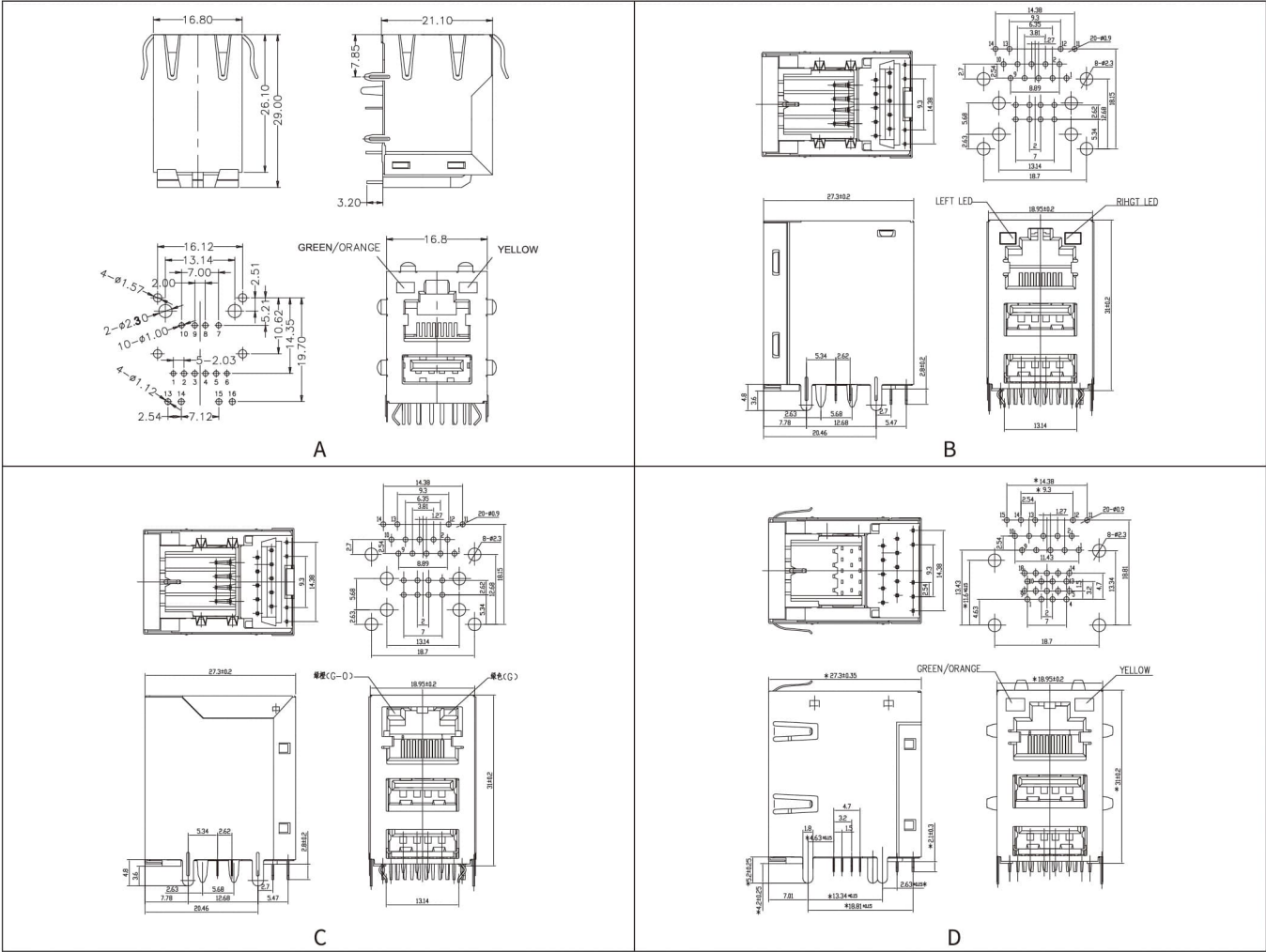
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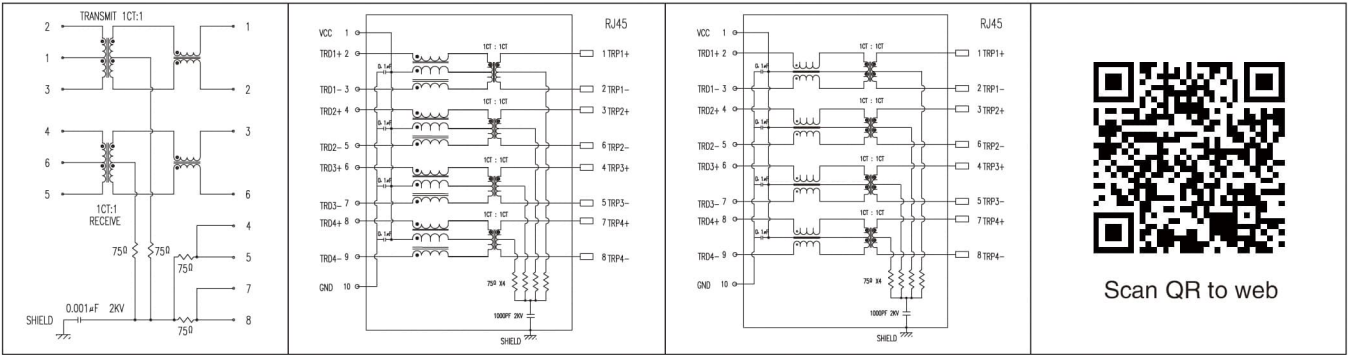
RJ45 USB Stacked Jack Connector



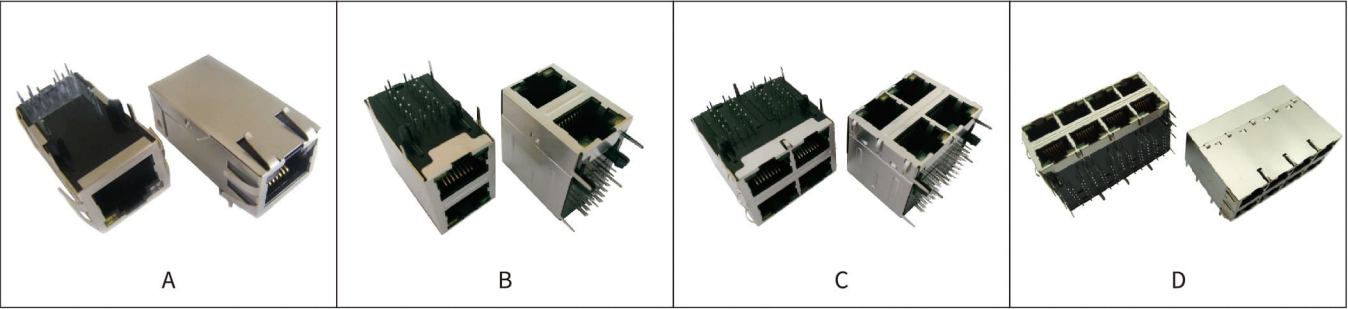
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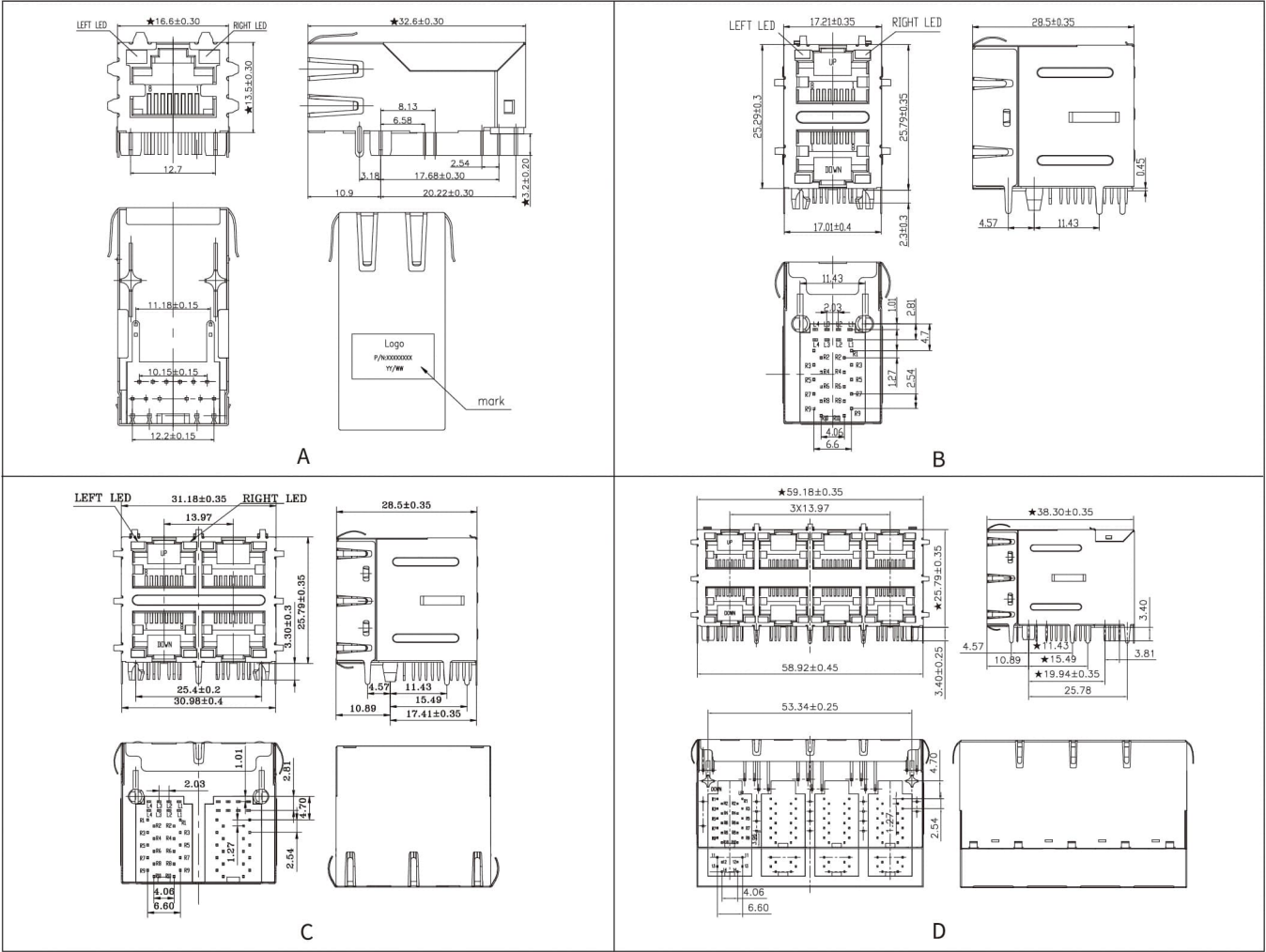
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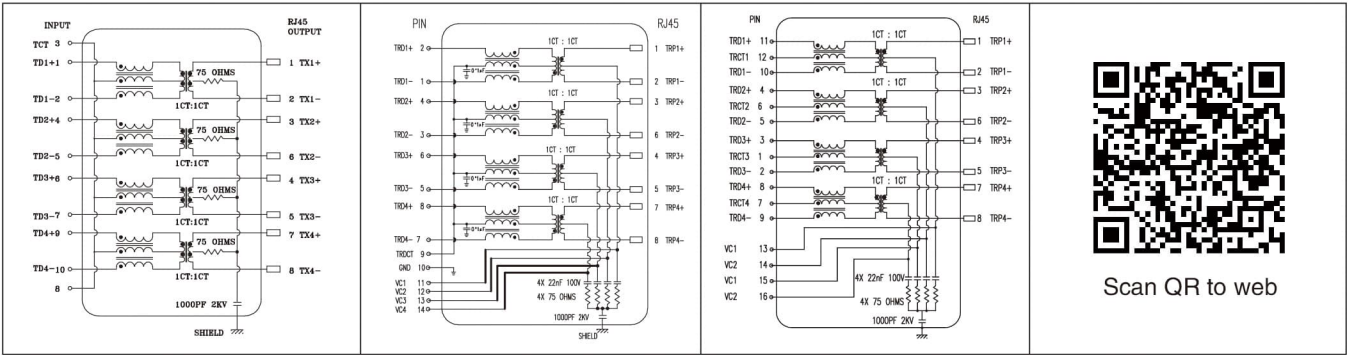
2.5Gb 5Gb 10Gb RJ45 Jack with Transformer



Mechanical



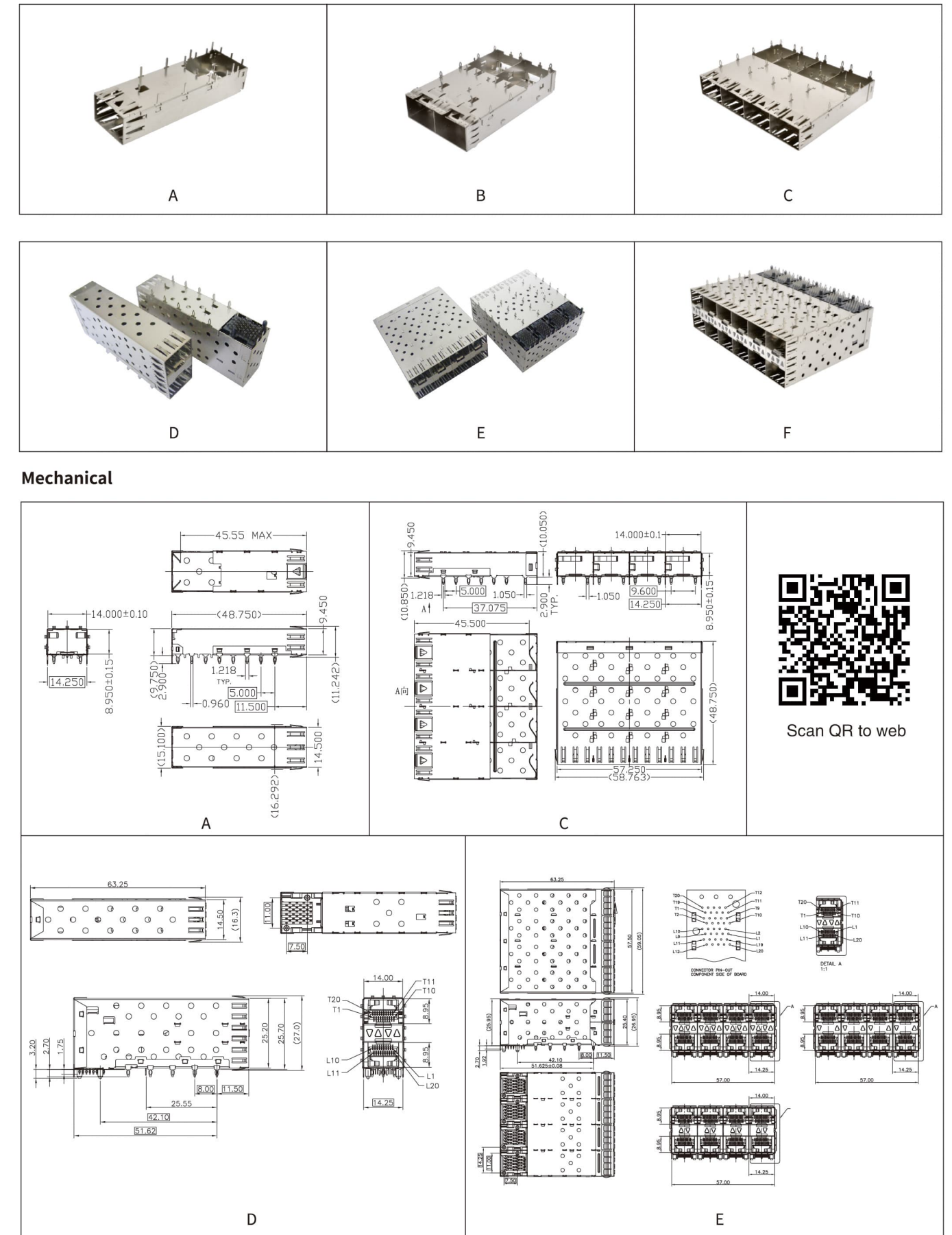
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RJ45 Jack w/o transformer



SFP Cage & Connector



Factory Tour

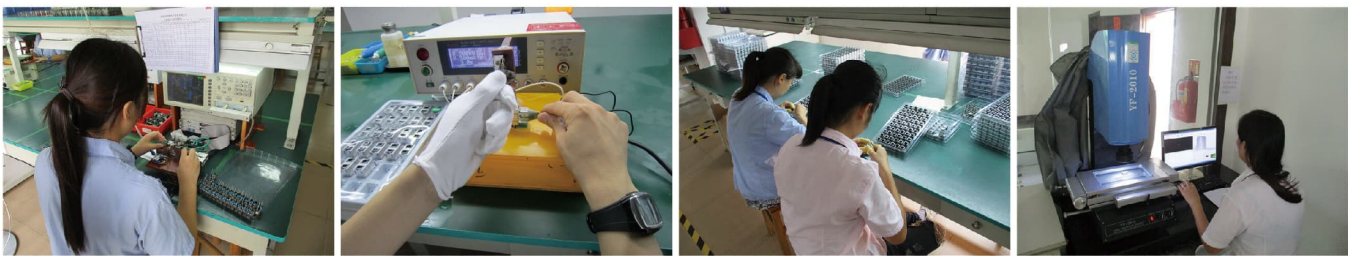
Building & Office



Production



QC Management



Equipment & Machine



Warehouse



THANK YOU