



About GOTREND

Go Trend · Go Further · Smarter



Founded in 2000, GOTREND Technology Co., Ltd. is a professional magnetic component design company and manufacturer. We provide high-quality magnetic component solutions for both traditional and advanced technological trends across a wide range of application fields, including wireless charging, smart living, industrial automation, medical equipment, telecommunications, and intelligent automotive systems.

GOTREND products are marketed globally, serving diverse application markets such as 3C (consumer electronics), automotive, medical, and aerospace industries. We pride ourselves on exceptional flexibility in custom design, embracing the vision of Go Trend, Go Further, Smarter. Our products meet the highest quality standards, including the IATF 16949 automotive system certification and AEC-Q200 reliability standards.

Over the past 24 years, we have been dedicated to providing superior products and adhering to QCDS principles (Quality, Cost, Delivery, and Service), taking pride in achieving customer satisfaction.

GOTREND Technology Co., Ltd. General Manager : Robin Tsai





Overview

Founded :	Year 2000
Capital :	NTD 200 Million (US 7 Million)
HQ Locate :	Zhong-he District, New Taipei City 235, Taiwan
Sales Locate :	TAIWAN Taipei / China GuangZhou
Plant Site :	China GuangZhou / Guangxi /Shaanxi / Hunan / Sichuan
Major Products :	Inductor / Filter / Transformer / WPC / 3D Transponder
URL:	www.gotrend.com.tw



History



Locations







Assembly Transformer











Workforce: 500 employees



FOTREND Electronics Co., Lt



Assembly SMD Choke Automation : 35% Facility Area : 3,500 m² Workforce: 300 employees

TECTREND Electronics Co.,Ltd. CMC & WPC Coil Automation Development Automation : 80% Facility Area : 6,000 m² Workforce : 200 employees

GuangZhou

SULLES SPECIFICS







Diverse Client Base Across Various Industries

GOTREND boasts a diverse client base spanning multiple sectors, including **networking and communications, automotive, industrial control, medical, wireless charging, consumer electronics, and servers.** Over the past 24 years, we have achieved remarkable milestones, serving more than 2,000 clients worldwide. This underscores our extensive market influence and broad business reach.

Customized Development with Flexible Services

GOTREND's exceptional engineering team delivers high-level **customized services**. With dedicated professional teams in both Taiwan and Mainland China, we ensure prompt and reliable support tailored to our clients' needs.

Decentralized Production for Economic Efficiency

To optimize cost and material advantages, GOTREND strategically decentralizes production across different regions based on product categories. This approach not only ensures economies of scale **but also mitigates regional risks while enhancing production flexibility and efficiency.**

Product Diversification with Competitive Alternatives

With a diversified product portfolio, GOTREND offers solutions that cater to various demands and serve as viable alternatives to industry-leading specifications. This provides our clients with more competitive QCDS (Quality, Cost, Delivery, Service) options.

Stringent Quality Control to Meet Reliability Standards

GOTREND serves numerous international automotive clients, ensuring both commercial and automotive-grade products undergo rigorous quality inspections. We maintain a **0 ppm** defect level, delivering superior quality products that meet stringent international standards.

Ongoing Automation with a Focus on Social Responsibility

In response to the growing demand for automation, GOTREND remains one of the few Taiwanese companies willing to invest in the production of **custom winding products that require manual processes**. We provide clients with comprehensive one-stop shopping services while steadily advancing automation. Additionally, we actively expand our production lines and contribute to boosting local employment, demonstrating a strong commitment to corporate social responsibility.



GOTREND's Competitive Edge

Principle of PoE

Power over Ethernet (PoE) is a technology that transmits electrical power through Ethernet cables. It allows data transmission and power delivery to IP devices (e.g., IP phones, access points, IP cameras) simultaneously via existing Ethernet infrastructure.

	ΡοΕ	PoE+	4PPoE or PoE++	
Standards	Standards IEEE802.3af		IEEE802.3bt	
PSE Output Power	<=15.4 W	<=30 W	<=100 W	
PSE Output Voltage	44~57 V DC	50~57 V DC	50~57 V DC	
PD Input Power	12.95W	25.5 W	71.3 W	
PD Input Voltage	37~57 V DC	42.5~57 V DC	41.1~57 V DC	
Maximum Current	350 mA	600 mA	960 mA	
Power Transmission Distance	Power Transmission Distance 100 m		100 m	
Number of Cable Pairs	2	2	4	



Inductors in Action



Power Inductors GSTM / GSFT / GSTD / GSFH / GSTL Series



Common Mode Filters GCMD / GTHW / GACM / GSCM Series



 [Traditional]
 NEW
 [New Modular]

 Lan Transformer
 Lan Transformer

 GTX Series
 GFLD > GFLX Series

Lan transformers include 10/100MHz, 1G, 2.5G, 5G, and 10G BASE-T, compliant with IEEE 802.3 standards. They come in single, dual, and quad-port configurations, with optional PoE power supply.

PoE Power Transformers GPOE Series



As PoE standards evolve to meet high power requirements up to 100W input, GPOE power transformers offer ideal solutions with flyback and forward topologies, ensuring stable output voltage and full isolation.

Signal Type

Differences in Structure Between New and Old Lan Transformers



When designing lan transformers, several key differences exist, primarily involving the circuit structure and application.



Traditional Lan Transformer :

The traditional process uses multiple toroidal cores, which require **semi-automatic or automatic winding**. However, all units still need to be manually inserted into the casing and soldered by hand. This structure makes it difficult to standardize characteristics and defect rates, as the assembly process for each lan transformer may vary.

New Modular Lan Transformer :

The new process uses an E-core and **automated winding**, which simplifies the production process and facilitates automation and standardization. The modular network transformer has a more integrated structure, with components arranged more separately, which enhances isolation and makes the circuit layout more flexible.





Comparison of New and Old Lan Transformer Architectures





▲ 【 New Modular Inductor Type 】 Schematic of Lan Transformer Circuit Design ▲ 【New Modular Capacitive Type】 Schematic of Lan Transformer Circuit Design



GTX Series

Traditional Lan Transformer

GOTRENT

Selection Guide - Signal

[Traditional] Lan Transformer - GTX Series

Supports 10/100MHz, 1G, 2.5G, and 10G BASE-T, compliant with IEEE 802.3 wired network standards. Available in single, dual, and quad-port configurations with optional PoE functionality.

Common	Common Mode for Power Line & EMI										
PoE Power Speed	non PoE	PoE 15W	PoE 30W	PoE 60W	PoE 100W						
10/100 MHz	GTX-IA130706P-351MS2	GTX-HA194	GTX-HA295	Customizable	Customizable						
10/100/1000 MHz	GTX-IH036	GTX-IH160-1	GTX-PH151008CP-S24A	GTX-IH181606P-351MS1	GTX-GP242T022						
2.5 GHz	GTX-GD242T018	Customizable	Customizable	GTX-GD242T022	Customizable						
10 GHz	GTX-GH005	Customizable	Customizable	Customizable	GTX-GT242X030						







Selection Guide - Signal

New Modular [Inductor Type] Lan Transformer - GFLX Series

Supports 10/100MHz, 1G, 2.5G, and 10G BASE-T, compliant with IEEE 802.3 wired network standards. Available in single, dual, and quad-port configurations with optional PoE functionality.

Common Mode for Power Line & EMI									
PoE功率 non PoE 速度		PoE 350mA PoE 720mA		Used with Common Mode Inductors	Quantity				
10/100 MHz	CELV4522200 284		CELV4E2220D 121 D1		2 pcs each				
10/100/1000 MHz	GFLX453229P-381 0/100/1000 MHz		GFLX453229P-121-P1	GFLW2012P-801YN	4 pcs each				
2.5 GHz	GFLX453229P-181-G	GFLX453229P-181-P0	GFLX453229P-121-GP1	GFLW2012P-801YG	4 pcs each				
10 GHz	GFLX453229P-121-S	GFLX453229P-121-SP0	GFLX453229P-121-SP1	GFLW2012P-801YG	4 pcs each				









Selection Guide - Signal

New Modular [Capacitive Type] Lan Transformer - GFLD Series

Supports 10/100MHz, 1G, and 2.5G BASE-T, compliant with IEEE 802.3 wired network standards. Available in single, dual, and quad-port configurations with diverse options. The latest capacitive transformer design integrates two previously separate common mode filters into a single component, maintaining compatibility with the original 3216 size for P2P applications. This innovation not only saves PCB space but also reduces SMT assembly steps, effectively managing costs.

Common Mode for Powe	r Line & EMI			New	
Speed	non PoE	Used with Common Mode Inductors	Quantity	non PoE (No CMC Required)	
10/100 MHz	GELD321620P-600V	GELW/2012P-801VN	2pcs each	CEL D221622D 200	
10/100/1000 MHz	GI LD321020F-000T	GILW2012F-001TW	4pcs each	Gilb321022F-300	
2.5 GHz	GFLD321620P-550Y	GFLW2012P-801YG	4pcs each	GFLD321622P-300-G	





ER Type

EFD Type

GPOE

Power Transformer



Selection Guide-Power [IEEE 802.3af (PoE)

GOTREND power transformer categories include flyback and forward types, featuring ER, EP, and EFD core types compliant with the IEEE 802.3af standard.

	ER14 ` EPU7 ` EP13 ` EFD15 ` EFD20 Core									
οE	PD Input power	Туре	3.3V	5V	12V	19.5V	24V	48V		
		P/N	GPOE-ER15PK -S12W03V33A	GPOE-ER15PK -S12W03V05A						
	3W	Core Type		ER15						
	(Flyback)	P/N	GPOE-EP07PK -S08W03V33A	GPOE-EP07PK -S08W03V05A	GPOE-EP07PK -S08W03V12A					
		Core Type		EP07						
	7W (Flyback)	P/N	GPOE-EP13PK -S10W07V33A	GPOE-EP13PK -S10W07V05A	GPOE-EP13PK -S10W07V12A					
		Core Type		EP13						
		P/N	GPOE-EP13PK -S10W13V33A	GPOE-EP13PK -S10W13V05A	GPOE-EP13PK -S10W13V12A					
	13W	Core Type		EP13						
	(Flyback)	P/N	GPOE-EFD15PK -S12W13V33A	GPOE-EFD15PK -S12W13V05A	GPOE-EFD15PK -S12W13V12A		GPOE-EFD15PK -S12W13V24A			
		Core Type		EFD15						



EP Type

EFD Type

GPOE

Power Transformer



Selection Guide-Power IEEE 802.3at (PoE+)

GOTREND power transformer categories include flyback and forward types, featuring EP and EFD core types compliant with the IEEE 802.3at standard.

	ER14 \ EP07 \ EP13 \ EFD15 \ EFD20 Core										
	PD Input power	Туре	3.3V	5V	12V	19.5V	24V	48V			
°oE+	24W (Forward)	P/N	GPOE-EP13PF -S10W24V33A	GPOE-EP13PF -S10W24V05A	GPOE-EP13PF -S10W24V12A						
		Core Type			EP13						
	30W (Flyback)	P/N		GPOE-EFD20PK -S12W30V05A		GPOE-EFD20PK -S12W30V19A	GPOE-EFD20PK -S12W30V24A				
		Core Type			EFD20						
	30W (Forward)	P/N	GPOE-EFD20PF -S12W30V33A	GPOE-EFD20PF -S12W30V05A	GPOE-EFD20PF -S12W30V12A	GPOE-EFD20PF -S12W30V19A	GPOE-EFD20PF -S12W30V24A				
		Core Type			EFD20						



EFD Type

GPOE

Power Transformer



Selection Guide-Power IEEE 802.3bt (4PPoE or PoE++)

GOTREND power transformer categories include flyback and forward types, featuring the EFD core type compliant with the IEEE 802.3bt standard.

	ER14 > EP07 > EP13 > EFD15 > EFD20 Core							
	PD Input power	Туре	3.3V	5V	12V	19.5V	24V	48V
	58W	P/N	GPOE-EFD20PK -S12W58V33A	GPOE-EFD20PK -S12W58V05A	GPOE-EFD20PK -S12W58V12A		GPOE-EFD20PK -S12W58V24A	GPOE-EFD20PK -S12W58V48A
	(Flyback)	Core Type			EFD20			
	60W	P/N	GPOE-EFD20PK -S12W60V33A	GPOE-EFD20PK -S12W60V05A	GPOE-EFD20PK -S12W60V12A		GPOE-EFD20PK -S12W60V24A	
	(Forward)	Core Type			EFD20			
4PPoE	65W (Flyback)	P/N	GPOE-EFD20PK -S12W65V33A	GPOE-EFD20PK -S12W65V05A	GPOE-EFD20PK -S12W65V12A		GPOE-EFD20PK -S12W65V24A	GPOE-EFD20PK -S12W65V48A
PoE++		Core Type			EFD20			
	84W (Flyback)	P/N					GPOE-EFD20PK -S12W84V24A	
		Core Type					EFD25	
	90W	P/N			GPOE-EFD20PK -S12W90V12A			
	(Forward)	Core Type			EFD20			
	100W	P/N			GPOE-EFD20PK -S12W100V12A			
	(Forward)	Core Type			EFD25			







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