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WFYEAR ELECTRONICS

PRODUCT MANUAL

promote "creation" to meet customer needs



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About WFYEAR

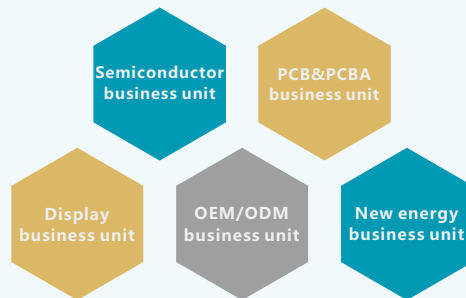
Hangzhou Wfyear Electronics Technology Co., Ltd. is a hybrid distributor of electronic components certified by ISO9001 quality management system, established in 2010 in Hangzhou, China - the host city of the 11th G20 Summit and the 19th Asian Games, and the world natural and cultural heritage of Hangzhou West Lake.

WFYEAR currently has semiconductor Division, Display Division, New Energy Division, OEM/ODM Division, PCB/PCBA Division, Relying on Hangzhou headquarters, Hong Kong branch and Shenzhen branch to provide customers at home and abroad with electronic components supply, electronic industry solutions, electronic product design and production services, display and AC/DC module electronic component services, cost-effective SMT assembly line equipment, a wide range of customers' business fields.

WFYEAR has obtained ISO9001 quality management system certification, the quality control process conforms to international standards, and has established strategic cooperation with a number of well-known third-party testing organizations in the electronics industry, such as White Horse, to win the trust of customers with "zero defects". WFYEAR applies intelligent storage management system to effectively control the storage environment, improve the efficiency of storage operations, ensure that products can be traced throughout the process, and create a systematic, informationized and modernized logistics system.

WFYEAR is your trusted electronics supply chain partner, looking forward to providing you with quality and complete electronics supply chain services!

Business unit



Brands



Product category

capacitors

connector

display

resistors

switch

blower

inductors

crystal oscillator

USB-C HUB

integrated circuits

fuse

Home
energy storage

diodes

electroacoustic
products

outdoor
energy storage

triode

module
development board

solar panels

LED

Sensor

PCBA equipment

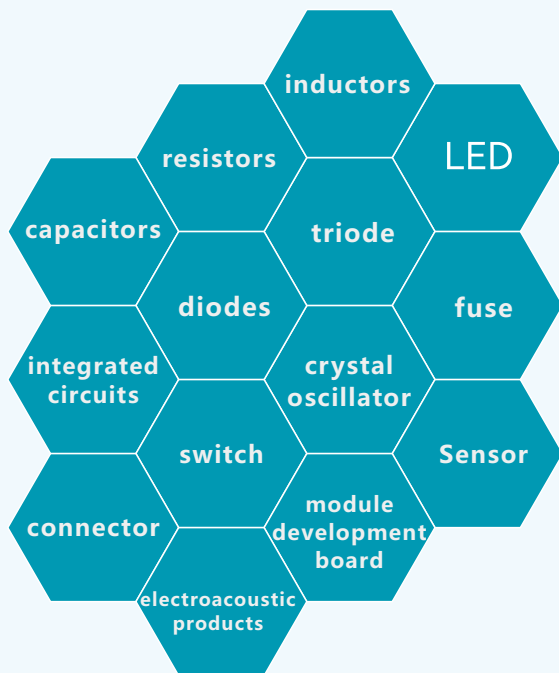
Business unit

One stop electronic parts procurement service

Since its establishment, Hangzhou Wfyear Electronics Technology Co., Ltd. has been focusing on the sales and service of electronic parts. The semiconductor business unit is the leading department of WFYEAR. Its efficient work, high-quality products and sincere service are welcomed by users and won wide recognition and praise from customers. WFYEAR Semiconductor Business unit provides customers with original components and services of internationally renowned brands by means of global procurement channels and a large number of spot products. Its brands include ST, Kingstate, VISHAY, ON, NXP, TOSHIBA, Murata, NOVOTON, LittleFuse, Intel, ROHM, ADI, ABC, Sikor, TI, RENESAS, AVX, TE, 3PEAK, YAGEO, FTR, HRE, GigaDevice, Amphenol, Winsen, Infineon, Melexis, OMRON, WFYEAR NOVOSENSE, Hamamatsu, and other products are widely used in industries such as power supply, communication, aerospace, computers, home appliances, anti-theft, control systems, and instrumentation, involving various levels of products such as automotive, industrial, and civilian.

Our products are 100% sourced from the original factory, and all goods can be traced back. The products you received from WFYEAR have undergone a rigorous inspection process. Our quality control team has received the latest training in identifying counterfeit products and inspecting them for compliance with industry inspection standards. We have the most advanced testing equipment and have established strategic cooperation with third-party authoritative testing agencies, which enables us to ensure the delivery of completely reliable products to our customers and minimize and eliminate the damage caused by counterfeit products! Of course, we also have strong after-sales service. WFYEAR Semiconductor Division sincerely looks forward to working together with all colleagues, and we will continue to sincerely serve the

Product category



Agent brand



PCB&PCBA business unit

PCB board design

WFYEAR PCB team from the industry design industry has many years of design experience of excellent engineers, while cooperating with well-known design companies, can provide you with high-speed, high-density, digital and analog hybrid PCB design, HDI, rigid and flexible board design, schematic library, PCB component package library. With schematics or netsheet files, structure drawings, device packaging or Datasheet, and other design requirements, WFYEAR can provide a PCB design solution for complete product signal integrity, electromagnetic compatibility, heat dissipation, and manufacturability.

PCB board making

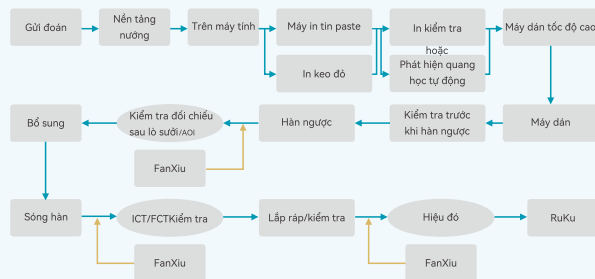
WFYEAR relies on the production equipment imported from cooperative board factories and advanced testing instruments to provide you with high-quality and perfect PCB board making services, including hard board, soft board, HDI, soft and hard combined board and so on.

PCBA

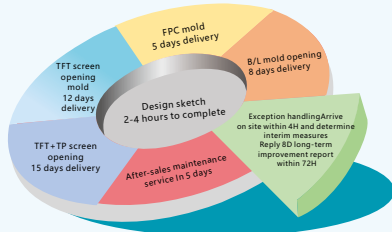
WFYEAR integrates high-quality resources in the industry to meet customers' needs for PCB design PCB board - component procurement -PCBA patches. WFYEAR's PCBA focuses on research and development of proofing small and medium-sized batches of PCBA patches, plug-ins, manual welding, etc., can provide 0201, 0402, BGA and other high precision, high difficulty, high quality requirements of PCBA patch processing and DIP welding services. The factory has dozens of high-speed SMT lines, DIP welding lines and various welding inspection system equipment, at any time to provide you with cost-effective PCBA services.

PCBA equipment

We offer our customers PCBA equipment from Samsung, Yamaha, Panasonic and Chinese brands: Lead-free hot air reflow welding machine, vertical curing furnace, lead-free double wave soldering machine, integrated selective wave soldering, mini selective welding machine, tunnel full nitrogen wave soldering, reflow auxiliary equipment, wave soldering auxiliary equipment, automatic optical inspection machine (AOI), three-dimensional solder paste inspection system (SPI), offline intelligent optical inspection machine, high-precision printing equipment, etc. At the same time, we provide technical guidance, support and training of technical personnel to help customers quickly establish PCBA automatic assembly line, and look forward to growing with you!



Display business unit



The Display business unit focuses on the development, production, sales and technical services of liquid crystal display modules (LCM) and touch displays. The products cover differentiated products, semi-transparent sunlight screen, IPS full-view screen, shaped cutting circle screen, semi-circle screen and COB, TAB, COG and other LCM module products, mainly used in communication, GPS, commercial equipment, digital products, instruments, household appliances, palm computer and many other industries.

Process flow: Patch & Bond



Process flow: BL assembly



Process flow: Fully fit



OEM/ODM business unit

1. Free, flexible function adjustment, to meet different user needs.
2. Own independent intellectual property to reduce price wars in your market.
3. Professional OEM and ODM R&D team design products for you.
4. Medium price, high quality, help you win more market opportunities.
5. More than 5 years of experience sales team to serve your order.

WFYEAR supplies industrial blowers and fuel cell electric compressors to industrial customers

WFYEAR offers a range of electric, direct-drive, high-speed centrifugal compressors for hydrogen fuel cells, environmental applications,

Electronic supercharging and industrial applications, engineering services such as compressor and expander design, ranging from clean air to HVAC Tune and continue to manufacture its twin-screw range of units.

With a strong research and development team, WFYEAR develops products that are efficient, compact, reliable and durable. In the meantime, we have been providing long-term services to the auto parts industry, implementing standardized management of product development and manufacturing processes to maximize customer satisfaction.



WFYEAR provides customers with high quality TYPE-C series product solutions

WFYEAR designs and manufactures a wide range of USB-C HUB products and solutions for consumer electronics brands that enable external peripherals and accessories to connect to laptops, PCS and smartphones. We strive to make connectivity easier, allowing different and often incompatible devices to be connected. Our products are used to connect external displays, fast charging, transfer data and audio, in addition to wireless chargers and iPad cases.

USB C HUB product advantages

- ◆ Comply with CE/FCC/ROHS license.
- ◆ Aluminum shell + plastic inner protection plate. Secure and protect PCBA during product assembly and drop tests.
- ◆ 180-220# sandblasting, 2mm thick aluminum room. Smoother, soft to the touch, scratch resistant, high temperature resistant.
- ◆ 24-pin full function USB-C PD cable, PVC material
- ◆ All interfaces are electroplated with high-frequency interfaces.



WFYEAR provides customers with AC-DC module solutions

WFYEAR provides power 6W to 18W cost-effective AC/DC module solution, adopts PWM high-frequency conversion technology, supports single-phase and three-phase AC wide voltage input, voltage range 75V to 460VAC, good reliability, all products can meet the EMC certification and UL certification related requirements. Widely used in smart home, communication equipment, instruments, LED lighting, multimedia speakers, power industry, industrial control, queuing system, display, small household appliance meters and other fields, all products and solutions support OEM, look forward to working with you!

New energy business unit

The New energy business unit mainly provides outdoor energy storage equipment, home energy storage equipment, solar panels and other new energy products.

Outdoor Energy Storage

It can provide overall solutions for outdoor fields such as camping, RV travel, as well as outdoor work scenarios such as home energy storage, emergency power, tool work.

- ◆ Outdoor style Series (200W-1500W)
- ◆ Suitable for DIY tool power, outdoor party power series (300W-2200W)
- ◆ Suitable for outdoor/camping/home disaster prevention series (600W-1800W)
- ◆ High grade waterproof and dustproof commercial series (2200W-4500W)

Home energy storage

(10KW-30KW) Stacked design New energy storage integrated system Flexible combination of battery capacity to meet different load household power demand When the surplus power can participate in power transfer and self-generation to enjoy all-weather power supply in emergency situations.

Solar panel

Stackable design New energy storage integrated system Flexible combination of battery capacity to meet different loads of household electricity demand when the surplus power can participate in power transfer and self-generation to enjoy all-weather power supply in emergency situations.

All WFYEAR energy storage products have ISO9001, BSCI, CE, PSE, UL, RoHS, MSDS and UN38.3 and other national certification certificates, all products support OEM, looking forward to working with you to open the green energy world!

Outdoor energy storage

ADVANCE SERIES Suitable for outdoor activities, camping and self-driving, family disaster preparedness and other use scenarios

INFINITY SERIES lithium iron phosphate battery, high performance and rich configuration, suitable for outdoor, Camping self-driving, family disaster preparedness, from 600W to 1800W, available

MASTER SERIES is suitable for RV electricity, outdoor party electricity, outdoor tools, Electricity, disaster electricity prevention and emergency situations

TANK SERIES is a good backup outdoor generator, also suitable for home use, workplace, such as home backup, medical assistance, office support, disaster relief, etc.



INFINITY SERIES



TANK SERIES



ADVANCE SERIES



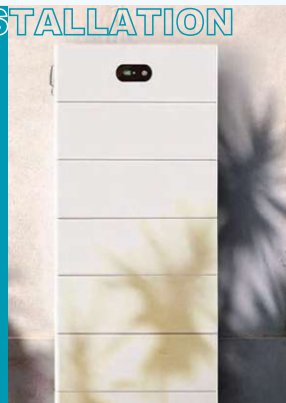
MASTER SERIES

Home energy storage

QUICK DIY INSTALLATION WITHOUT CABLES

Stackable per 2.5kWh, 4 ~ 8 packs, 10kWh ~ 20kWh.
CAN and RS485 protocols available for hybrid and off-grid inverters.

- LiFePO₄ battery
- 6000+ life cycle battery
- IP65 waterproof
- Active fireproof design
- Suitable for home and commercial use



Modular	4+2	5+2	6+2	7+2	8+2
Model	25-10K	25-12.5K	25-15K	25-17.5K	25-20K
Rated Power	192V	240V	288V	336V	384V
Connection	1P60S	1P75S	1P90S	1P105S	1P120S
Capacity	9.984kWh	12.48kWh	14.976kWh	17.472kWh	19.968kWh
Weight	105kg	129kg	152.3kg	175.5kg	199.5kg
Size	220x606x900mm	220x606x1070mm	220x606x1240mm	220x606x1410mm	220x606x1580mm

SOLAR PANELS

Light transmittance

Made of ETFE, it has high heat resistance and light transmittance of up to 95%.

Waterproof IP65

IP65 waterproof design, corrosion resistance, high temperature resistance, suitable for outdoor use.

Security protection

Seven layers of pressure plate protection, maintain good battery performance, extend the working life.

Voltage stabilizer protection

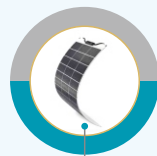
Self-regulating rectifier circuit box, maintain a stable voltage.
Direct charging of digital products
USB-A and TYPE-C
Dc power supply with stable output can directly charge digital products to achieve the fastest utilization of light energy.

Wide compatibility

One to four adapter ports for most brands of lithium storage power supplies

Folding/magnetic solar panels

30W/60W/100W/120W/200W



Flexible solar panel

100W/200W

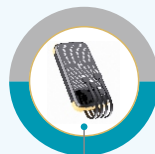
Ultra-thin laminate

The semi-flexible solar panels are flat and only 0.1 inches high
suppleness

Solar panels can bend up to 20 degrees in an arc
High conversion efficiency
Made of monocrystalline silicon and ETFE. The light transmittance is up to 95%

urable

It meets the highest international standards for salt spray resistance
Withstand extreme winds of up to 2400 pa and snow loads of up to 5400 pa



Solar power bank

(Lithium-ion battery)
20000mAh & 16000mAh

portability

Light weight, easy to carry

Perfect for travel

4 flash modes for long-term lighting

Good compatibility

One to four conversion cables for more scenarios

Emergency clean energy

It can be charged by solar panels

Easy charging

Wireless charging

durable

Withstand high wind and snow loads

Waterproof IP65

IP65 waterproof design, corrosion resistance, high temperature resistance, suitable for outdoor use.

Widely used

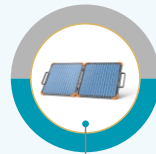
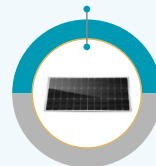
At present, the acceptance is relatively high

Emergency clean energy

It can be charged by solar panels

Aluminum frame straight panel solar panel

50W or 100W per panel
(Tempered-glass)



Double daylight solar panels

100W/200W
(ETFE/Tempered-glass)