

Self-discipline, Gratitude, Integrity, Learning, Reflection, Sharing

2024

Honortech International Limited



HONORTECH

Create value for users

Content

HONORTECH

01 Company Overview

02 Authorized Business

03 Trading Business

04 Quality Control

01

Company Overview

About Honortech

Established in Hong Kong in 2008, Honortech International Limited is a rapidly growing hybrid distributor of electronic components. Headquartered in the bustling international trade center of Hong Kong, it boasts a widespread presence with branches and offices in Shenzhen, Suzhou, Shanghai, Dalian, Fuzhou, Japan, Malaysia, Thailand, Vietnam, Philippines and India. Honortech is dedicated to delivering wide range of electronic component supply chain solutions and design-in services to clientele spanning diverse sectors, including network communication, automotive, industrial control, healthcare, and the Internet of Things, among others. Honortech has been recognized for its excellence with numerous awards and certifications, including the title of International Most Promising Distributor for consecutive years, high-tech enterprise status, ISO9001 international system certification, and ERAI certification. The company is also a proud recipient of Dun & Bradstreet 3A level enterprise certification.



Mission

To enhance competitiveness, we work closely with customers and suppliers for mutual growth;

To provide customers with high-quality and efficient supply chain management services;

To encourage all employees to pursue continuous self-growth and enjoy the pleasure of work.

Vision

To become a partner who recognizes trust and mutual achievement for customers & suppliers;

To become a platform provider for employees & industry elites to realize the value of life;

To become the industry's top distributor & a cohesive company;

Values

Self-discipline, Gratitude, Integrity, Learning, Reflection, Sharing

Honor+Tech=Honortech

HONOR: Grow together with customer and develop together with employees

TECH: TECHNOLOGY DRIVEN

Qualifications & Certifications



- ISO 9001 Certification
- Dun & Bradstreet A Level
- ERAI Certification
- Most Potential Star Distributor by AspenCore
- In-house laboratory

- 100% Authentic
- Quality Assurance
- Third-party Test Report

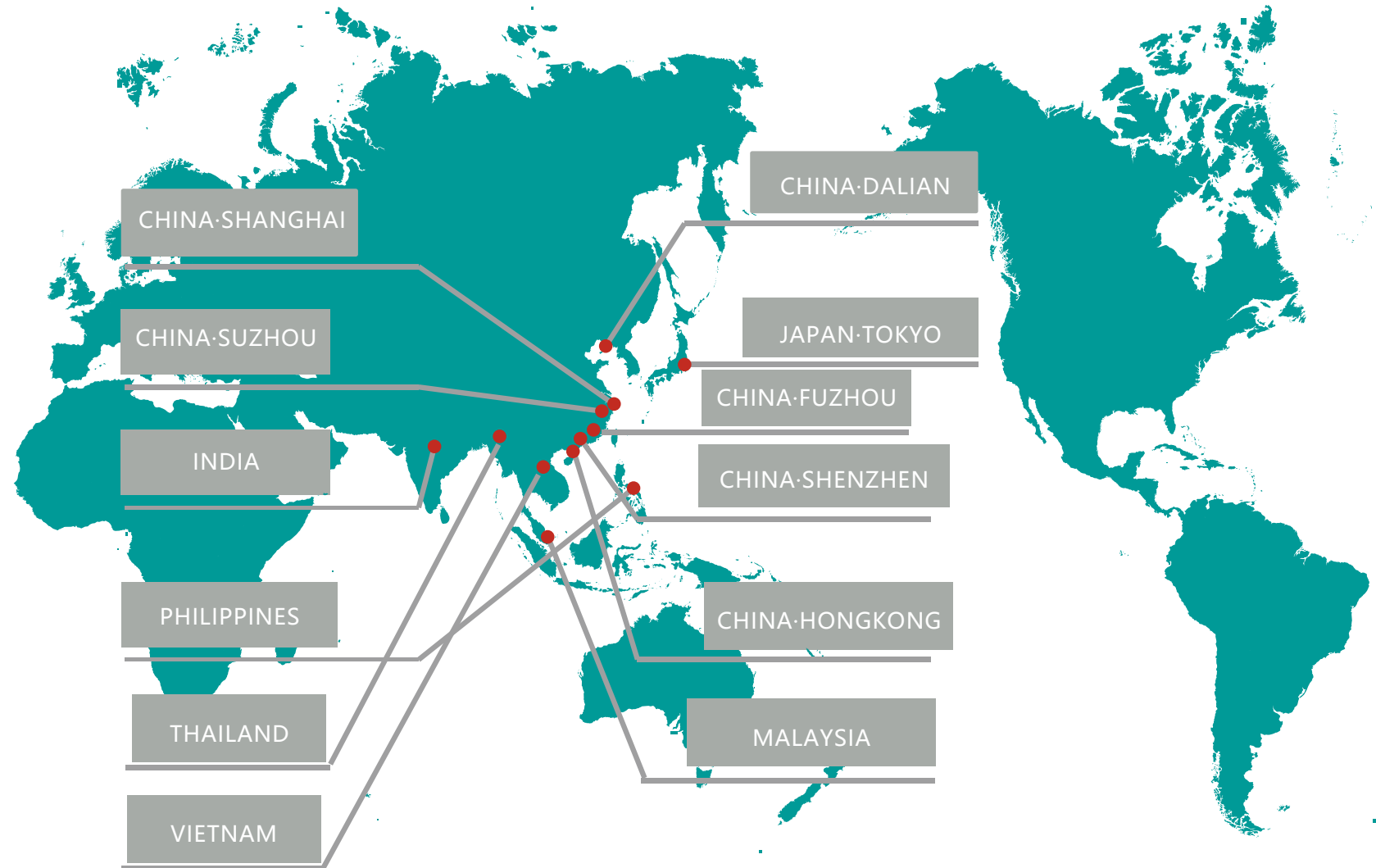


A Global Presence

138

Number of Employees : Around
138 professionals

1800
over 1,800 square meters



Locations



Honortech HongKong

Headquarters : Unit 2A, 9/F, Vanta Industrial Centre,
No.21-33 Tai Lin Pai Road, Kwai Chung, N.T.,HongKong



Honortech Shenzhen

Branch office: F2003,Building F,Galaxyworld,WuheAvenuesouth,
LongGang Distict,Shenzhen, Guangdong Province
Warehouse: 4/F, Building 102, East Zone, B5, Shangbu industrial
zone, intersection of Hongli Road and Huaqiang Road, Futian
District, Shenzhen, Guangdong Province



Honortech Suzhou

Branch office : Room 1112, Building 1, Link Business Plaza,
No. 278, Suzhou Avenue East, Xietang Street, Suzhou
Industrial Park, Suzhou, Jiangsu Province



Honortech Dalian

Branch office : No. 1-1303,Building 8,Shangpintiancheng,21
Xinggong South 5th Street, Shahekou District, Dalian,
Liaoning Province



Honortech Shanghai

Branch office : Room 302,No. 4,Lane 99,Hairong
Road,Pudong New Area, Shanghai, China



Honortech Fuzhou

Branch office : Minjiang Century City, Cangshan
District, Fuzhou, Fujian Province

Locations



Honortech Japan

Branch office : Floor 13, Pacific Century Plaza, 1-11-1 Marunouchi, Chiyoda-ku, Tokyo, Japan



Honortech Malaysia

Branch office: 1-21-01, Suntech @ Penang Cybercity (2168) , Lintang Mayang Pasir 3, 11950 Bayan Baru, Penang, Malaysia



Honortech Thailand

Branch office : Chaengwattana-Chaiyapruet, Moo.3 T.Bangtanai, A.Pakkret, Nonthaburi, Bangkok Metropolitan Area, Thailand



Honortech Vietnam

Branch office : Dong Ngac Street, Bac Tu Liem District, Hanoi City, Vietnam



Honortech India

Branch office : Bangalore (Hybrid) Karnataka, India



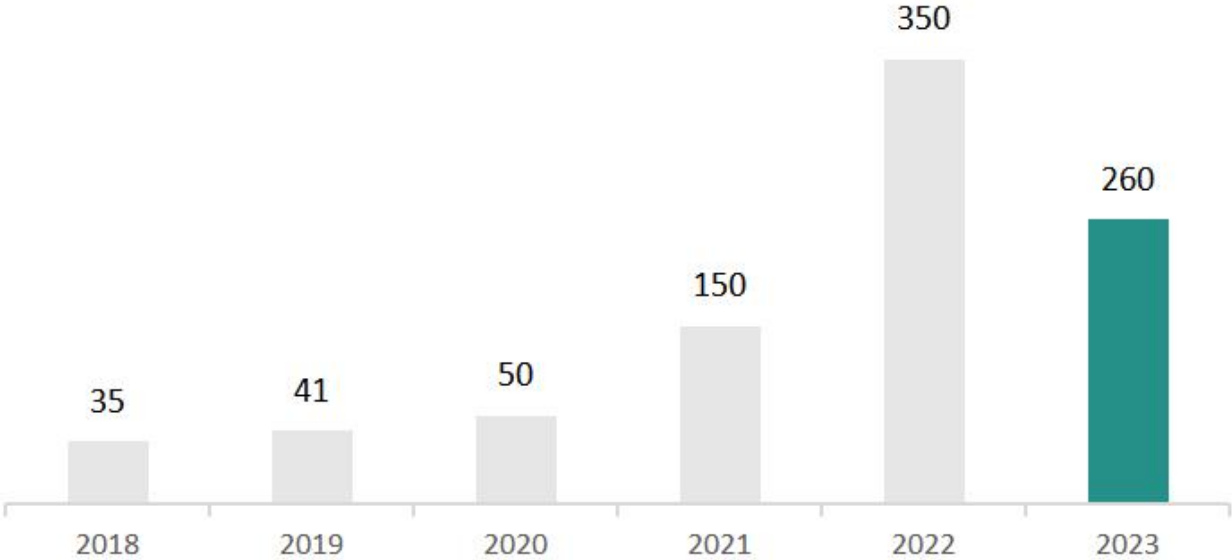
Honortech Philippines

Branch office : St. Manchester 12, Lancaster New City, Pasong Camachile 1, General Trias, Cavite, Philippines

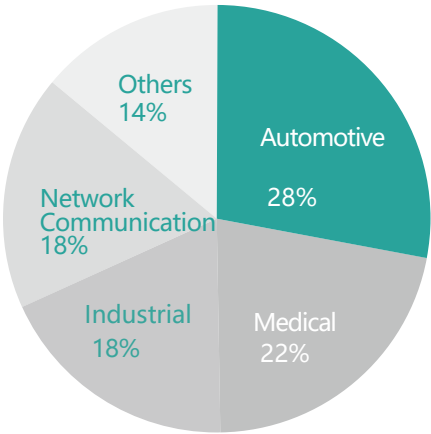
Sales Volume



Sales Volume (Million USD)



Percentage



Market Segment

02

Authorized Business

Authorization



Authorized Line Card



Main Market



OBD



OBC



Charging Pile



Head-up Display



VFD (Variable-Frequency Drive)



Instruments & Apparatus

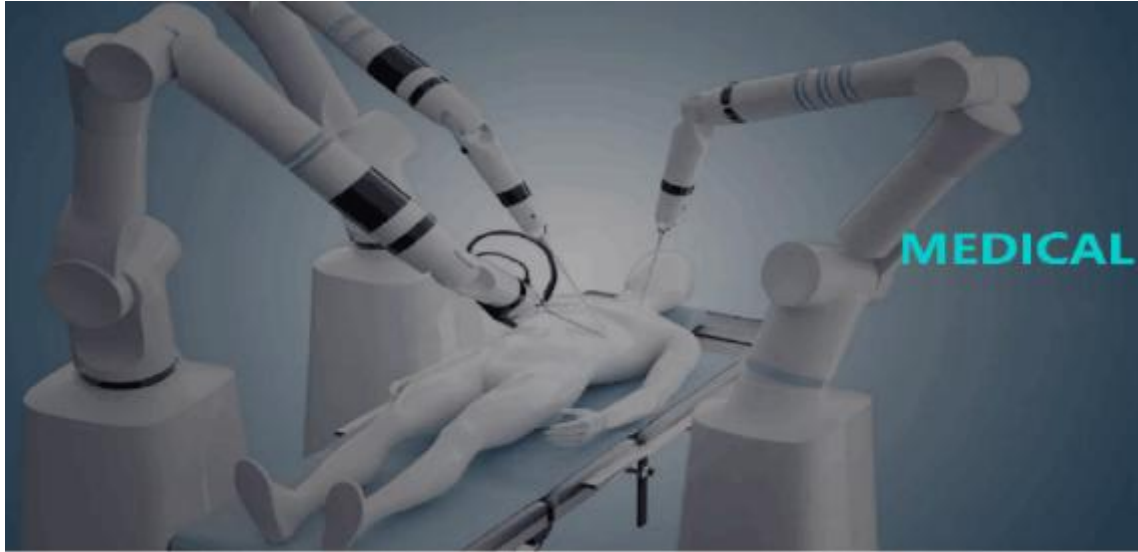


Industrial Power Supply



BMS Protection Board

Main Market



Patient Monitor



Foetus ECG Monitor



IVD(in Vitro Diagnosis)



Switch



Server



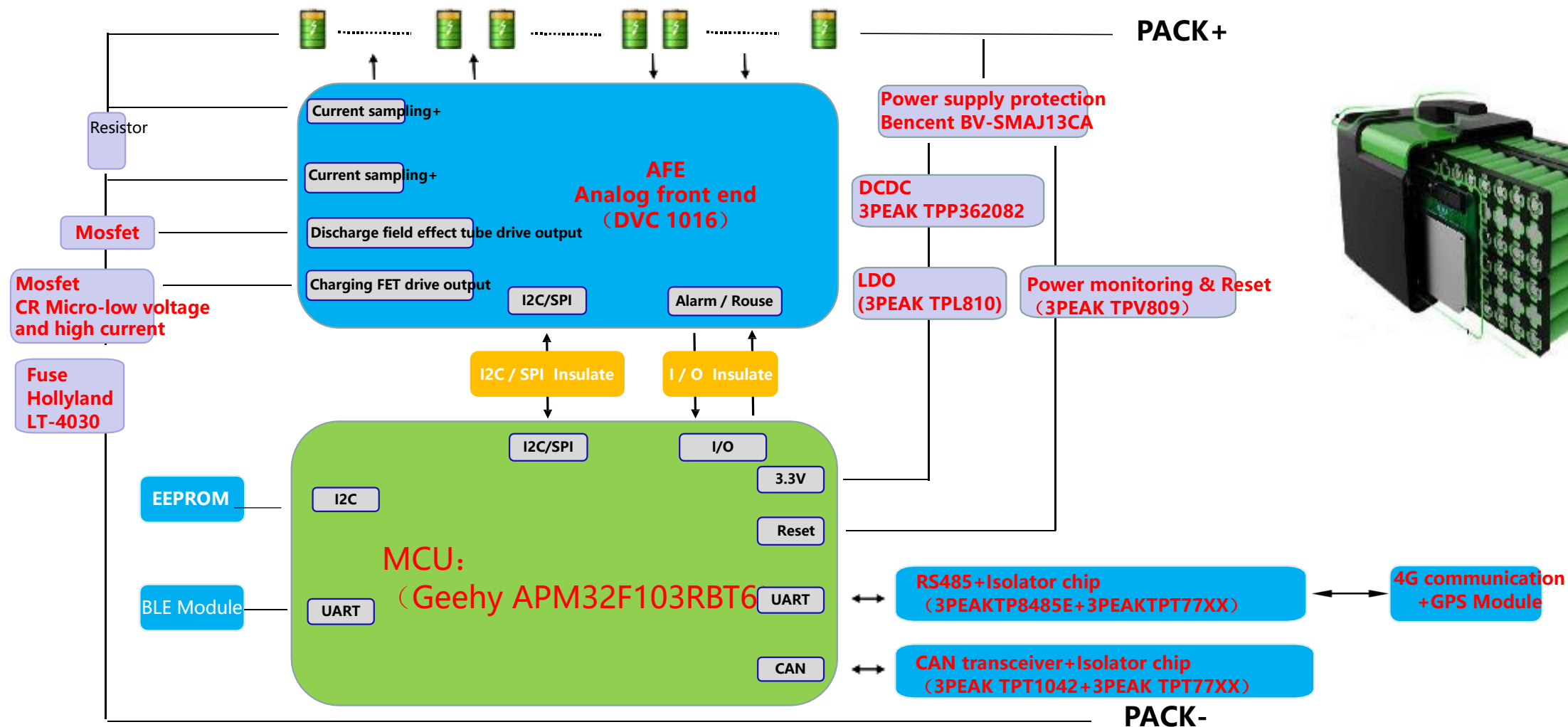
POE Power Supply



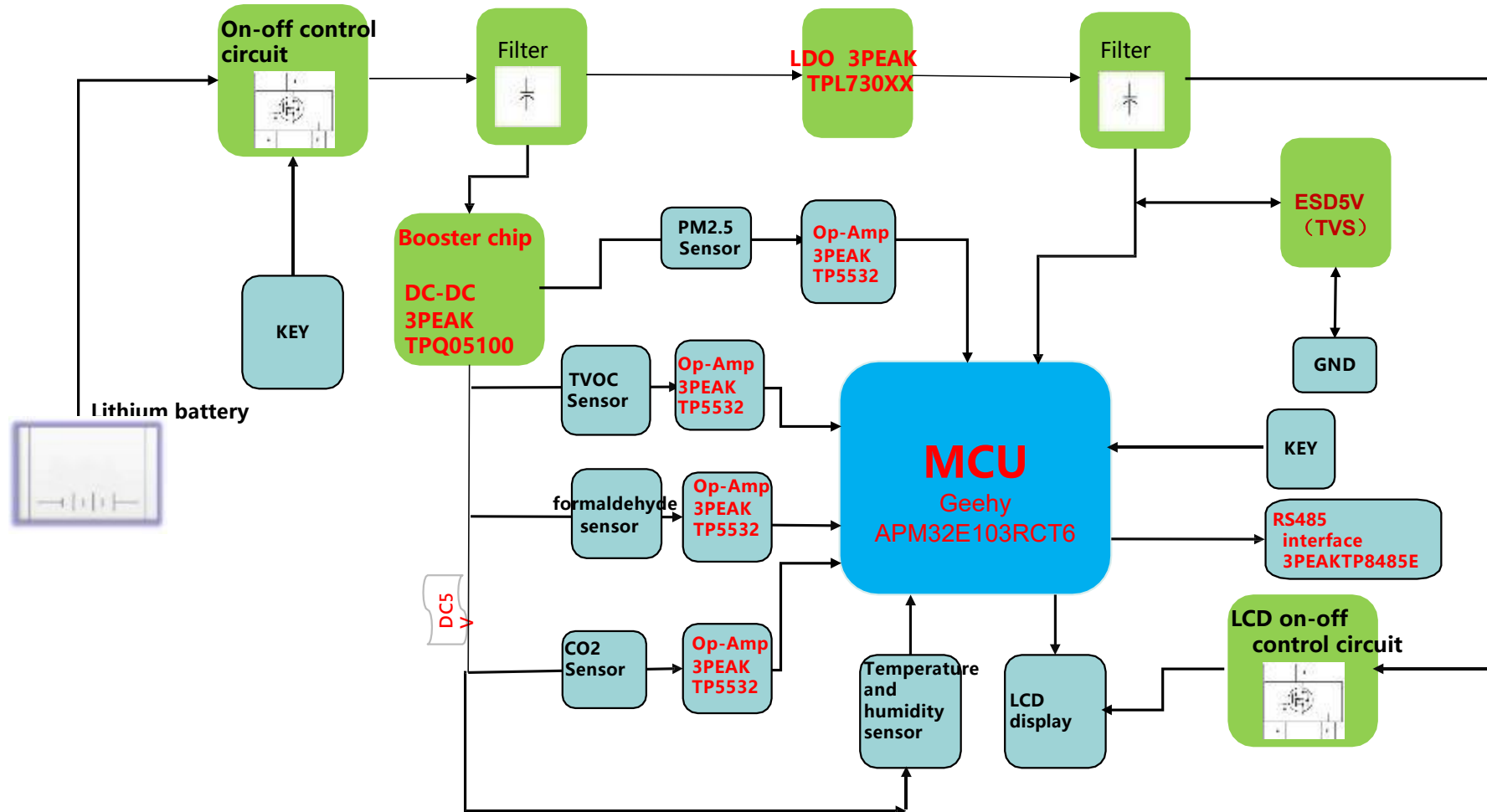
Wireless AP

Main Market

BMS Framework Diagram



Gas Detector Frame Diagram

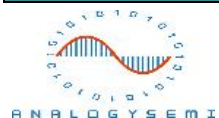


		Products: MCU, Gate Driver
极海 Geehy	Overview	1. A wholly-owned subsidiary of Ninestar Co., Ltd. (China's Top 500 Listed Companies). 2. The first investment company of the National Integrated Circuit Industry Fund, the second phase capital increase strategic investment company. 3. One of the world's top five laser printer manufacturers (a global supplier of a full range of printer chips).
	Sales Volume	Revenue in 2023: Group's revenue: ¥ 24 billion, net profit: ¥ 280 million. Geehy's revenue: ¥ 1.4 billion, net profit: ¥ 133 million, annual R&D expenditure: ¥ 506 million.
	Supply Chain	Fab: UMC (Suzhou Hejian) , Huahong Grace IC Packaging and testing Plant: Huatian, Changhong
	Main Products	MCU(Cortex-M0/M3/M4): APM32F030/051/072/091 series, APM32F103/105/107 series, APM32F405/407/411/465 series.
	Advantages	1. Good compatibility, Software/hardware is 99% compatible with ST series models. 2. Fully compatible with development/compilation environment. 3. Price is 20% lower than ST.
	Key Account	Industrial: Inovance, Hechuan, Leadshine Medical: Edan Instruments, Mindray Medical Automotive: Wuling Hongguang Stored Energy: Hangke, Daly

		Products: Op amp, Comparator, Analog Switch, RS485/RS232 Ports, ADC/DAC, Capacitive Isolation, LDO&DCDC, MCU
思瑞浦 3PEAK	Overview	1. Domestic analog device listed company. 2. Mid-to-high-end analog chip manufacturer (one of the top three domestic analog device design capabilities). 3. Huawei certified supplier.
	Sales Volume	Revenue in 2023: Total revenue: 1.1 billion, net profit: -49 million. R&D expenditure: ¥ 550 million, accounting for 50%.
	Supply Chain	Fab: TSMC, TowerJazz, SMIC, CanSemi IC Packaging and testing Plant: ASE, Jiangsu Changdian, Huatian, Tongfu Microelectronics
	Main Products	Digital IC: MCU Signal Chain: Op amp, comparator, analog switch, interface, ADC/DAC, Capacitive Isolation, Reset IC Power Supply Chip: LDO, DC/DC, Drive IC
	Advantages	1. Complete product line: Op amp, comparator, analog switch, RS485/RS232 ports, ADC/DAC, LDO/DCDC, MCU). 2. High reliability and consistency, low cost. 3. Full range of replacements (mainly compatible with mainstream brands: TI, ADI and ST, pin-to-pin).
	Key Account	Industrial: Fanuc, Siemens, Schneider, Hitachi Medical: Mindray, Edan Instruments, Yuyue Medical, Sinocare Automotive: BYD, BAIC, Geely, Chery Telecommunication: Ericsson, Nokia, Samsung, ZTE

		Products: Precision Voltage Reference Source, Amplifier, Analog-to-Digital Converter (ADC), Digital to Analog Converter (DAC), Multiplexer and Switch
治精微 ZJW	Overview	1. The only supplier in Asia that can provide high-performance/complete precision signal chain chip solutions. 2. Famous venture capital financing such as Zhangjiang High-technology, Zhangjiang Group. 3. The founding team has rich R&D experience and background (ADI/Linear overseas returned R&D team).
	Advantages	1. Amplifiers: operational, instrumentation, differential, and fully differential amplifiers. 2. Analog to digital converter: single/multi-channel multiplexing SAR: 14-18 bits, multi-channel synchronization SAR: 16 bits, 8/4 channels, Sigma Delta ADC: 16-24 bits. 3. Digital to analog converter: single channel R-2R: 14-20 bits, multi-channel: 14-18 bits 8/4 channels, multi-channel high-voltage output: ± 10 V, 4-20 mA output. 4. Precision voltage reference source: 15V power supply, 5.5V power supply 130 μ A, 40V power supply, all at 5ppm/$^{\circ}$C max. 5. High performance analog switch/multiplexer: 5/30V multiplexer, 5/30V switch 2, silicon carbide diode product advantages: ultra-low leakage current, high temperature resistance.

		Products: DRAM (DDR4, LPDDR4X)
福建晋华 JHICC	Overview	1. Controlled by the State-owned Assets Supervision and Administration Commission of Fujian Province (Fujian Electronic Information Group). 2. Emerging forces of DRAM Fab in China mainland (JHICC & CXMT), filling the shortfall in domestic memory production, based in China and looking to the world. 3. Chip design and manufacturing, wafer manufacturing (12-inch production line), technology and production capacity are completely independently controllable.
	Advantages	1. Chip P2P compatible with mainstream brands: Samsung, SK Hynix, Micron and Nanya. 2. Verification on multiple platforms: Amlogic, HiSilicon, Rackchip, MediaTek, SANECHIPS, etc. 3. Main market: TV, STB, AI Camera, etc.



		Products: Op amp, ADC, Voltage Reference, LDO, Driver, ECG
类比半导体 Analogy Semi	Overview	1. The core members come from top international analog manufacturers ADI and MAXIM, including TI, ADI, and MAXIM, and have led the development of numerous high-quality star products. 2. The main investors are first-tier funds such as SMIC Venture Capital, Crystalwise Technology, Shanghai Free Trade Zone Fund, and Haitong Kaiyuan Investment. 3. Strong research and development capabilities: 36 invention patents and 6 PTC international patents.
	Advantages	1. Biomedical: the world's first mass-produced automotive-grade/medical-grade ECG chip. 2. ADC products: mass production of 16-20 bit $\Sigma\Delta$ and 24-bit/32-bit $\Sigma\Delta$ ADC. 3. NA products: several high-performance operational amplifiers in mass production (in the BTS/BMS field). 4. Automotive-grade: DR70xQ series (H-bridge intelligent gate driver), CSA240 series (current sensing amplifier), IS801 series (transformer driver).



		Products: LDO (Low Dropout Regulator), DCDC (DC-to-DC Converter), Voltage Detection, Lithium Battery Management, ACDC (AC-to-DC Converter), Reference Source, ADC (Analog-to-Digital Converter)
南京微盟 Nanjing Micro One	Overview	1. Established in 1999, with a history of 24 years, specializing in the research, development, and sales of analog integrated circuit chips. 2. An IC design enterprise under China Electronics Corporation (CEC), a wholly-owned subsidiary of Shanghai Belling, with five major research and development centers in Nanjing, Beijing, Shanghai, Chengdu, and Wuxi. 3. It has four major product lines: LDO, DCDC, AC, and mixed-signal.
	Advantages	1. The voltage range of products covers from 5V to 60V, including various types of low-power, low-noise, high PSRR (Power Supply Rejection Ratio), high-precision, and low-cost LDOs. 2. LDOs have inputs of 6.5V, 18V, 30V, 40V, and 60V, including features such as low noise, low power consumption, and high PSRR. 3. DCDC covers input voltages from 5V to 30V, with features such as ultra-low power consumption, small package size, and constant voltage and current. 4. Lithium batteries have functions such as reverse polarity protection, reverse connection protection, and linear charging of single-cell lithium batteries. 5. ACDC covers constant power products from 4W to 100W, including features such as full-load valley switching, wide voltage withstand capability up to 80V with frequency jitter suppression.

		Products: Power Management, Power Devices, Motor Drives, Data Converters, Standard Signal Chain Products
上海贝岭 Shanghai Belling	Overview	1. Domestic first listed company in the domestic integrated circuit industry. 2. Domestic first-class analog and digital-analog hybrid integrated circuit supplier. 3. The main market areas include automotive electronics, large appliance, industrial control energy storage, energy efficiency monitoring, network communication, intelligent terminals.
	Advantages	1. LDO market share is the top three in China. 2. Shielded gate power mosfet, super junction power mosfet, Trench FS IGBT has achieved 1.6μm mass production of high density trench gate multi-layer field cutoff technology. 3. The high-performance ADC/DAC and the supporting high-precision reference source chip are at the leading level in China. 4. Single-phase metering chips dominate the domestic unified recruitment market with a 70% share.

VPSC 源特科技

		Products: Isolated DC - DC
苏州源特 Suzhou VPSC	Overview	1. National High-Tech Enterprise. 2. passed the ISO9001 quality management system certification. 3. All products of the company are independently developed and have 100% independent intellectual property rights.
	Advantages	1. Complete products: 6 series and dozens of models. 2. Mainly benchmarked against the power module of Mornsun, with high cost performance; it can provide customers with power supply scheme-level design.

		Products: LDO, DCDC(Buck), Precision Analog, ADC Converter
共模 GONG MO	Overview	1. The core member are former R&D team from ADI, Linear, Maxim etc. 2. Backed by well-known institutions such as Oriza Limited, Wu Yuefeng, Leading Science and Technology Innovation, Shunrong, Shanghai Science and Technology Innovation, Su Science and Technology Innovation, Hushan, Feng Yuan, Debi etc.
	Advantages	1. LDO Series: High PSRR, Low Noise (Mainly benchmarked against Linear Tech), widely used in medical field. 2. DCDC(Buck): High-efficiency, small-volume Buck (P2P compatible with ADI and TI). 3. Precision Analog Series: 16bit, 1MSPS ADC (P2P compatible with AD798x、AD76xx、LTC238x, ADS892x); 5V low-noise precision op amp (P2Pcompatible with AD8655、AD8656、AD8606); 3ppm/°C reference datum (P2P compatible with ADR0x, ADR4xx, REF0x, LT6657, REF50xx).

		Products: Transistor Optocouplers, Photo Relays, High-speed Optocouplers, High-voltage Controllable Silicon Optocouplers, Gate Drive Optocouplers, Intelligent Gate Drive Optocouplers, IPM Interface Optocouplers, Opto-isolation Operational Amplifiers, etc.
群芯微 Qunxin Microelectronics	Overview	1. The largest domestic manufacturer of optocoupler products. 2. The company with the most authorized patents in the optocoupler industry (107 in total). 3. An IDM (Integrated Device Manufacturer) company that vertically integrates the entire industry chain, including chip design and manufacturing, packaging and testing, terminal sales and services. The annual output value is ¥ 400 million, among which 300 million is for foundry service, providing packaging and testing services for major domestic optocoupler manufacturers. It has a short delivery time and high cost performance.
	Advantages	1. The chip is P2P compatible with mainstream brands such as ON Semiconductor, Toshiba, Avago, LITEON, EVERLIGHT, etc. 2. Supplying internationally renowned brands such as BYD, Wuling Motors, TELD, Midea, Jinlang Technology, etc

		Products: Analog Front End
南京集澈 DEVECHIP	Overview	1. National High-Tech Enterprise. 2. Innovative Leading Enterprise in Nanjing. 3. Leading domestic Manufacture of multi-cell lithium battery management chips, system-in-package regulator chips and multi-channel RF transceiver chips.
	Advantages	1. Performance: high sampling accuracy, complete product series, low chip power consumption. 2. Advanced technology: adopts automotive-grade high-pressure BCD process design, stable and reliable performance. 3. Comparable to mainstream brands: Texas Instruments, Renesas, NXP, Panasonic, Linear Technolog.

		Products: Power Devices (MOSFET, Diode, SiC Diode, SiC MOSFET)
瑞森半导体 REASUNOS	Overview	1. An enterprise that has successfully mass-produced and globally sold third-generation SiC SBD and MOSFET. 2. The only designated domestic market sales enterprise by the military research institute. 3. A national high-tech enterprise with 40% of its employees engaged in research and development.
	Advantages	1. SiC MOS product advantages: high frequency, high power, high efficiency, low on-resistance. 2. SiC diode product advantages: ultra-low leakage current, high temperature resistance, Low voltage MOS product advantages: ultra-low internal resistance, appropriate junction capacitance, high efficiency. 3. High voltage MOS product advantages: ultra-low internal resistance, appropriate junction capacitance, good heat dissipation performance, low leakage current at high temperatures.

		Products: Mosfet, Silicon Carbide Diode, Silicon Carbide MOS, IGBT
华润微 CR MICRO	Overview	1. A subsidiary of China Resources (directly supervised by the State-owned Assets Supervision and Administration Commission of the State Council, a key state-owned backbone enterprise). 2. Huawei Certified Supplier. 3. An IDM (Integrated Device Manufacturer) with chip design, wafer manufacturing (6-inch, 8-inch and 12-inch production lines), packaging, testing capabilities, etc.
	Advantages	1. MOSFET low voltage, high current, fully packaged. 2. Own wafer factory, controllable delivery time.

		Products: Discrete IGBT, IPM, IGBT Module and Gate Driver IC
巨风半导体 TREX Technologies	Overview	1. Core team background from Infineon (IR power semiconductor) former R&D. 2. Backed by Shenzhen Venture Capital, Guangzhou Development Zone Industrial Fund, GAC Capital, Inovance Technology, etc.
	Advantages	1. Gate Driver IC: low turn-on/turn-off delay, large output current/sink current, P2P replacement IR/infineon/ON Onsemi. 2. IPM: High collector-emitter VCES (600v), high collector current (c-pole), high collector current (peak) IcP (50A/100A), high switching frequency fPWM, P2P replacement infineon. 3. IGBT Module: Low Vce(sat) with positive temperature coefficient, low switching loss, built-in fast recovery diode, Tvjop=150°C. 4. Main Clients: Wuling Automotive, Inbor, Gree, Midea, Inovance, etc.

		Products: Crystal Units, Standard Crystal Oscillators, Temperature-Compensated Crystal Oscillators, Voltage-Controlled Crystal Oscillators, Real-Time Clock Modules
爱普生 EPSON	Overview	1. Epson is well-known among its peers for providing precision oscillators and is the only quartz manufacturer in the industry with its own IC factory. 2. In the 2010 global ranking of crystal oscillator manufacturers, Epson held the top position and was one of only seven manufacturers producing synthetic quartz. 3. Epson has a global sales network, primarily in the United States, Europe and Asia.
	Advantages	1. KHz Series: (1) Crystal units have the characteristic of low ESR, making it easier to achieve oscillation stability for integrated circuits with low driving capability; (2) Crystal oscillators have the characteristics of low power consumption and a wide temperature range. 2. MHz Series: (1) Crystal units are characterized by small size and low height, with frequencies reaching up to 100MHz; (2) Crystal oscillators have high-frequency and low-jitter capabilities. 3. Epson is most famous for its 32.768kHz, with its RTC (Real-Time Clock) modules featuring temperature compensation and high precision.

		Products: Active Crystal Oscillator, Quartz Programmable Crystal Oscillator, SMD Vehicle Gauge Crystal Oscillator, Passive Crystal Oscillator, Ceramic Crystal Oscillator
扬兴晶振 YXC	Overview	1. Deep cultivation of crystal vibration industry for more than 30 years, serving more than 40,000 customers 2. The first quartz programmable crystal oscillator manufacturer in China. 3. With sputtering coating equipment, fine tuning equipment, dispensing machine equipment.
	Advantages	1. YSX series crystal oscillator can reach 1210 ultra-small package, with high precision, low jitter characteristics, high alternative applicability. 2. Q-MEMS series programmable oscillator with 1-1500mhz arbitrary frequency can be customized, high stability, low jitter characteristics, can achieve 2 seconds fast sample. 3. YSO series crystal oscillator maximum voltage up to 5v, with high reliability, low power consumption, fast vibration characteristics. 4.The full range of products has the vehicle gauge level certification.



		Products: Khz, Mhz Resonators, SPXO, TCXO, OCXO, RTC Oscillators
泰晶科技 TKD	Overview	1. National high-tech enterprises, National Electronic Element Association Vice President Unit, drafters of several national standards. 2. The introduction of digestion, independent research and development of lithography production line. 3. Crystal industry leading enterprises. The only listed crystal oscillator manufacturer in China.
	Advantages	1. A full range of khz resonators cover low power real-time clocks, and a full range of mhz resonators cover the mhz clock industry. 2. The end product design is more miniaturized and low energy consumption. 3. The application of new technologies to the clock base frequency requirements continue to increase, improve the stability of high-speed, large-capacity communication. 4. Improved clock accuracy and stability, normal accuracy of +10PPM, stability of 0.01ppb.



		Products: GDT, TSS, TVS, ESD, Composite Devices and etc.
槟城电子 Bencent	Overview	1. Domestic first-class protective device manufacturers. 2. Domestic communications, monitoring and other related leading suppliers (Huawei, Hik Vision, Gree and H3C). 3. Equipped with a CNAS-accredited laboratory, can offer chip overvoltage and ESD testing services to clients.
	Advantages	1. Ceramic gas discharge tube (GDT, TSS) : small size, low capacitance and strong flow ability. 2. Transient suppression diode (TVS) : small size, high reliability and strong flow ability. 3. Electrostatic protection devices (ESD) : multi-channel, low residual voltage and high current.

		Products: Capacitors, Filters, Resistors, Transformers, Inductors, Circuit Protection Devices
NIC Components	Overview	1. Leading supplier in the field of passive component technology. 2. Products include Aluminum electrolytic capacitor, tantalum capacitor, Ceramic capacitor, RF module, DC film capacitor, thick film and film resistor products, as well as the growing power inductor and ferrite chip magnetic bead series.
	Advantages	1. Assign engineers to directly monitor the work of their factories to ensure production quality and the implementation of new technologies. 2. Provide alternative models for well-known brand products such as Yageo, Vishay, TTElectronics, etc.

SET fuse 赛尔特

		Products: Temperature Fuses, Varistors, Thermal Protection Varistors and Current Fuses
赛尔特 SET Fuse	Overview	1. Get the award from Ministry of Industry and Information Technology as a specialized, refined, and innovative "Little Giant" enterprise. Obtained national level high-tech enterprise for 4 consecutive times. 2. Products are widely used in the fields of new energy, energy storage, communication, lightning protection, power supply, lighting, home appliances, mobile devices, medical and other electricity consumption fields. 3. Selected for the Xiamen Award to Find the Invisible Champion Made-in-China in 2018. 4. China Electronic Components Industry Association has recognized that the market share of temperature fuses is the world's first advantage.
	Advantages	1. Products are sold to over 40 countries and regions, and we have profound cooperation with some Fortune 500 companies. 2. Originating and innovating multiple products; Obtaining CCC, UL, cUL, VDE, TUV, PSE, KC and other certifications, compliant with RoHS and REACH. 3. Obtained IATF16949, ISO9001, ISO14001, ISO45001, and GB/T29490 management system certifications.

		Products: Self Recovery Fuse PPTC, FUSE, WSF Three Terminal Fuse, ESD/TVS, NTC and other Overvoltage Protection Components
竞沃电子 TLC Electronic	Overview	1. National high-tech enterprise, specialized, refined, and innovative enterprise, among the top three domestic overcurrent protection components enterprises. 2. Products are widely used in automotive electronics, industrial control systems, energy storage lithium battery protection, communication security, and customer groups: Apple, Samsung, Sandi, Huichuan. 3. Can provide customers with high-quality products and comprehensive line protection solutions.
	Advantages	1. A R&D team of over 40 people, and team with over ten years of industry experience. 2. The R&D equipment industry is leading. Rich technical reserves to support rapid productization of new technologies. 3. 1200 square meter laboratory with testing capabilities such as UL.TUV.CQC.AEC-Q200. 4. Product line is complete, including overcurrent, overvoltage, and overheat protection devices. It can produce standard parts or customized products.



		Products: Current Fuses, New Energy Fuses, Three-terminal Fuse Tubes, Intelligent Fuses
好利科技 HOLLYLAND	Overview	1. The first listed company in China to focus on fuses. 2. The member of the National Fuse Standardization Technical Committee. 3. High tech enterprise, small technology giant enterprise. 4. Products are widely used in the fields of new energy, energy storage, communication, lightning protection, power supply, lighting, home appliances, mobile devices, medical and other electricity consumption fields.
	Advantages	1. The industry has been deeply cultivated for 30 years, with excellent quality assurance capabilities, high brand awareness and complete certification. 2. The product range is complete, including current fuse tubes, new energy fuses, three-terminal fuse tubes, and intelligent fuses. 3. Strong independent research and development capabilities, fast service response, supporting numerous frontline brand customers worldwide.

		Products: Fuses, Fuse Blocks, Circuit Breakers/Connectors
硕特 SCHURTER	Overview	1. Swiss technology. 2. It mainly serves the fields of industrial equipment, medical equipment, automobile, avionics and aviation, data, communication and energy. 3. A broad portfolio of products including circuit protection, plugs and connectors, EMC products, switches, input systems, and standard solutions in the field of electronics manufacturing services.
	Advantages	1. Circuit protection-reset and non-reset fuses, fuse blocks, circuit breaker connectors-all types of IEC 60320 compliant and 400VDC Electromagnetic compatibility (EMC)-single-phase and three-phase filters. 2. Available with IEC socket Power entry module, choke, pulse transformer, Drive moduluskey switches-microswitches, contactless switches, piezoelectric components, mechanical stroke, instantaneous and self-locking functions, metal buttons. 3. With display function/input system-touch screen, touch panel, capacitive keyboard, membrane keyboard, chassis and Control System/project management (EMS) throughout the product life cycle.

		Products: FPC, FFC,HSD/FAKRA, IO series, Lamp Connector
北极大电子 Beijida Electronic (BJD)	Overview	1. High tech enterprises with efficient competitiveness and influence in China. 2. The products are widely used in various fields such as automotive electronics, LED business displays, OA office equipment, industrial control, consumer electronics, etc. 3. Professional R&D, manufacturing, and sales of I/O Receiver, FPC CONN, FFC, FAKRA&HSD, floating B TO B connector manufacturers. 4. One of the first connector solution providers to enter the domestic automotive electronics industry.
	Advantages	1. UL certified in the United States. 2. Certified by ISO2000 quality system. 3. All raw materials and mechanical equipment for FFC and FPC products are imported.

		Products: Power Management products (LDO, DC-DC), Linear products (Operational Amplifiers, Comparators, and Analog Switches), Logic ICs, Hall ICs, MOSFET/IGBT, TVS/Diodes and Thyristors.
友顺 UTC	Overview	1. One of the global high-performance semiconductor suppliers. 2. Involves a wide range of comprehensive semiconductor products. 3. An integrated device manufacturer (IDM) with vertical integration of the industry chain, including chip design, manufacturing, packaging testing, terminal sales, and services.
	Advantages	1. Chip P2P compatible with mainstream brands: ST, Infineon, TI, ON, Microchip, Renesas, etc. 2. International famous brand suppliers: HP, Huawei, LG, TP-Link, Brother, etc.

03

Trading Business

Business Solution



01

Shortage Sourcing

02

Cost Reduction / PPV

03

Alternative Recommended Service



05

Value-Added Services

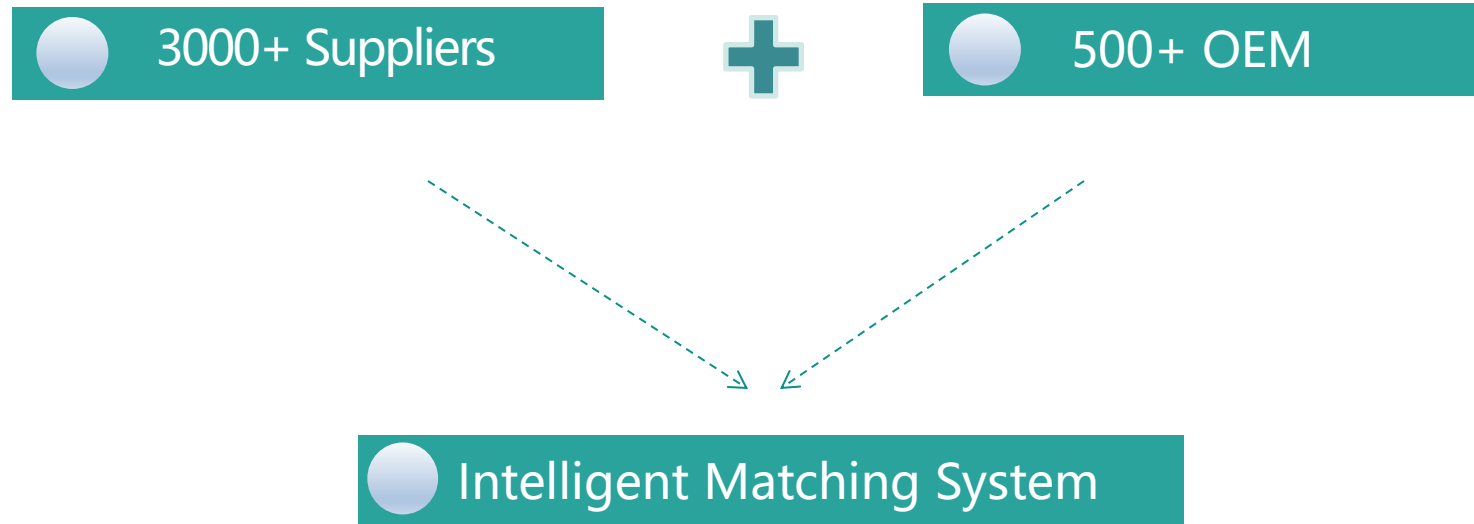
04

Inventory Reselling

Partial Line Card



Advantage Channel



Alternative Recommended Service



Product	Original Brand	Alternative Brand
Operational Amplifier, Analog Device	TI	3PEAK/Analogy Semi
DC-DC	TI/MPS/SILIGERY	3PEAK/UTC
Digital Isolation Chip	TI/ADI	3PEAK
MCU	ST	Geehy
Logic IC	TI/NXP	UTC
CAN	NXP/TI	3PEAK (Automotive-grade)
SiC	INFINEON/ST/CREE/ROHM	CR MICRO/REASUNOS
Mosfet/IGBT	INFINEON/ST	CR MICRO/TREX
Optical Isolation	ONSEMI/TOSHIBA/AVAGO	Qunxin Microelectronics
ADC/DAC	TI/ADI	3PEAK/ZJW/Analogy Semi
Voltage Reference	TI/ADI	3PEAK/ZJW

- Successfully recommended alternatives for customers in Japan, Europe, America, China and other regions
- Widely used in communications, medical, industrial and smart wearable industries
- Solve thorny issues such as long delivery time, high cost, EOL parts.

Advantage alternative products : Comparator, Amplifier, Voltage Reference, Interface Chip, Op Amp, MCU, ADC/DAC, MOS, Connectors, Isolation (Digital Isolation & Optical Isolation), Power Supplies, etc.

Inventory Solution



01 Consignment

Advantages :

- We arrange the shipment of your materials to our facility
- We record and report all sales of your product and the amount remaining in stock
- Program secures a high ROI – best program for older and obsolete components

02 Recycling Recovery

Advantages :

- Offered as an added service to our client customers
- Allows for the disposal of your electronic obsolescence in an environmentally and economically sound way

03 Lot Purchasing

Advantages :

- Moves volume of product quickly at one time
- Generates quick cash flow
- Eliminates carrying costs associated with excess inventory
- Eliminates time and effort spent selling unmarketable and custom inventory

04 Line Item Purchasing

Advantages :

- Allows for individual line item accountability
- Offers a quick fix.

05 End - of - Life Buys

Advantage :

- Eliminate carrying costs
- Money is no longer tied up, allowing you to invest in other areas of growth
- We ship product on your schedule with a reasonable mark-up
- Eliminate need for a design change on your mature product

Value-Added Service



01 Supply Chain Management

NPI project package purchasing;
Sample supply;
No shipping minimums

02 Warehouse Management

Bonded inventory
Importing
JIT delivery
Kitting
Purchasing services of EOL parts

03 Testing & Analysis Services

Solderability testing
RoHS element analysis with the Niton Xlt
Baking and dry-packing of components
onsite to JEDEC specifications
Tape and reel
Vacuum sealing
Customer-specific instructions
Certificate of destruction for disposed
inventory
Customer/supplier corrective action for all
service defaults
Decapsulation
I.C. Programming
CCAP counterfeit test requirements
X-ray Fluorescence Technology
(X.R.F.)

04

Quality Control

Quality Control



Honortech is committed to providing courteous, responsive, quality service to all of our worldwide customers. Our quality inspectors and component engineers strive to exceed customer expectations.

Supplier Grade	Definition	Inspection content	Equipment
A	Manufacture	Outer packaging inspection	Magnifiers
A	Authorized Distributor	Outer packaging inspection	Magnifiers
A	Secondary Authorized Distributor	Outer packaging inspection	Magnifiers
B	E-platforms	Outer packaging inspection	Magnifiers Microscope
B	Special Channel	Outer packaging inspection	Magnifiers Microscope
C	OEM, Broker	100% inspection	Microscope X-Ray D-Cap Inspection Equipment

Suppliers Approval

1. New Supplier

- Background check
- Proof of transaction
- On site inspection



2. Approval

- Purchasing Manager
- Office Manager of process



3. Approved Supplier

- Generating system code

Suppliers Assessment



Review twice a Year

- Preferred supplier
- Score ≥ 160
- More order opportunities

- Qualified supplier
- Score 100-160
- Keep unchanged

- Unqualified supplier
- Score below 100
- Provide improvement report

- Prohibited supplier
- Poor quality control
- Poor after-sales performance

Incoming Material Management

Third party inspection content

- Solderability test
- Internal structure (D-cap)
- Function and performance test
- RoHS & Pb free & Halogen free

Company self-inspection content

- Self-inspection content
- Inner and outer packaging
- Label PIN/Solder Ball encapsulation
- Silk screen printing
- Surface test and silk screen durability test
- Scratch test
- Product consistency
- Dimensions
- X-ray

Testing Equipments



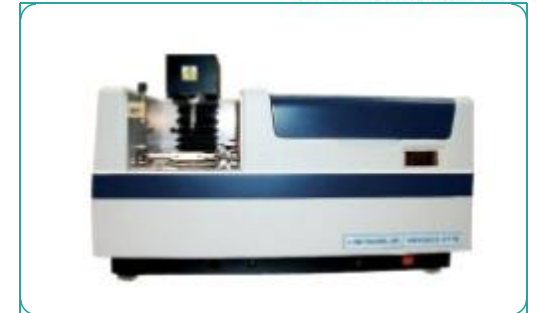
Equipment: Microscope
Application: Materials, electronics, lead-free soldering, machining, semiconductor manufacturing, aviation, automobiles, ceramics, geology, medicine, metallurgy, etc.



Equipment: X-Ray Inspection Equipment
Application: detection of internal cracks and foreign body defects in metal materials and parts, plastic materials and parts, electronic components, electronic components, LED components, etc., analysis of internal displacements such as BGA, circuit boards, etc.; distinguishing empty welding and virtual welding Wait for BGA welding defect analysis, etc.



Equipment: IC Decapsulation Equipment (IC D-cap)
Application: The decap test, also known as DECAP, is a destructive experiment. It uses chemical reagent methods or laser etching to remove the external package shell of the component to check the original logo, layout, process defects, etc. on the surface of the die. Testing is an auxiliary testing method.



Equipment: Solderability Equipment
Application: According to the test standard of the solderability test, this test mainly detects whether the soldering ability of the chip pins meets the standard.



Equipment: Baking and Dry Packing
Function: Baking of all PCB boards and semiconductor devices.



Equipment: Function Testing
Function: Verification of key functions of all semiconductor devices.



Equipment: Programming
Function: Test all chips that can support programming.



Equipment: Pin Correlation Test
Function: According to the device pins and related instructions specified by the manufacturer in the specification, use a semiconductor tube characteristic grapher to check whether the chip is damaged through open circuit and short circuit tests.

Honortech Laboratory



Honortech testing laboratory:

1: Dimension; 2: Appearance; 3: Packing inspection; 4: Automatic counting; 5: X-Ray inspection;



Third-party testing laboratory:

1: D-cap testing; Electrical performance testing; Solderability testing;
2: Reliability testing; Failure analysis; ROHS testing;
3: Ultrasonic scanning (SAT testing)

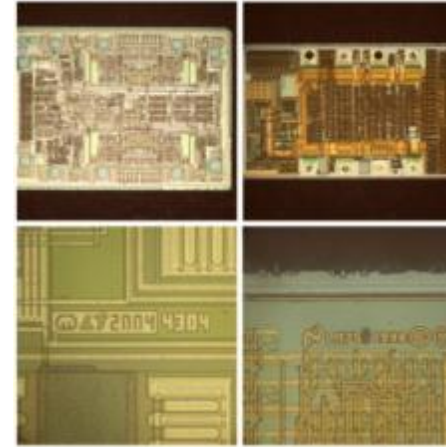
Inspection Items



External Visual Inspection:

Description: Appearance test means to confirm the number of chips received, inner packaging, humidity indicator, desiccant requirements and appropriate outer packaging. Secondly, the appearance of a single chip is inspected, including: the typing of the chip, the year, the country of origin, whether it is re-coated, the state of the pins, whether there are traces of re-grinding, unidentified residues, and the location of the manufacturer's logo.

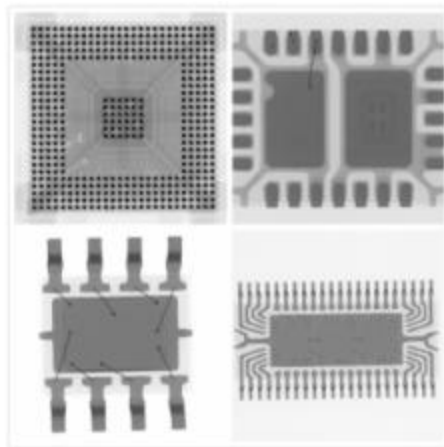
Application scope: Determine whether the chip is brand new, refurbished, whether the pins are tinned, oxidized, etc. according to relevant testing standards.



Decapsulation:

Description: Opening (unsealing) is mainly to use instruments to corrode the package on the surface of the chip to check whether there is a wafer inside, the size of the wafer, the manufacturer's logo, the copyright year, and the wafer code to determine the authenticity of the chip.

We shall use range: other chip authenticity verification and failure analysis.



X-Ray Inspection:

Description: X-ray test is a real-time non-destructive analysis to check the internal hardware components of the component. It mainly checks the lead frame of the chip, wafer size, gold wire bonding diagram, ESD damage and holes. Customers can provide good products for comparison. examine.

Application scope: detection of internal cracks and foreign body defects in metal materials and parts, plastic materials and parts, electronic components, electronic components, LED components, etc., analysis of internal displacements such as BGA, circuit boards, etc.; distinguishing empty welding and virtual welding Wait for BGA welding defect analysis, etc.

Key Customers



Honortech Team



Honortech Team



Honortech committed to providing customers with one-stop procurement and cost saving service & technical support & cross reference:

- 1、 Rich product lines with domestic brand as alternative solutions
- 2、 Flexible stocking & VMI service
- 3、 Quick response 7*24 work, three minutes response

Self-discipline, Gratitude, Integrity, Learning, Reflection, Sharing

HONORTECH

THANKS



Tel : 852-21164683

Website: <http://www.honortech-int.com/>

Address : Unit 2A, 9/F, Vanta Industrial Centre, No.21-33 Tai Lin Pai Road, Kwai Chung, N.T., HongKong

Email: sales@honortech-int.com

Honortech International Limited