LakSphere
ELECTRONICS
PVT. LTD.

SEMICONDUCTOR & ELECTRONIC COMPONENTS

LINE CARD

Independent Distribution • Global Sourcing • Procurement Support

From Requirement to Supply — Reliable Component Sourcing

OEM | EMS | Manufacturers | Engineering Teams | Procurement Teams

01 SEMICONDUCTORS

Integrated Circuits
- Microcontrollers (MCUs)
- Microprocessors (MPUs)
- Application Processors
- Digital Signal Processors (DSPs)
- System-on-Chip (SoC)
- System-on-Module (SoM)
- Application-Specific ICs (ASICs)
- FPGAs
- CPLDs
- PLDs

Analog & Mixed-Signal
- Operational Amplifiers
- Comparators
- Instrumentation Amplifiers
- Voltage References
- ADCs
- DACs
- Data Converters
- Analog Switches & Multiplexers
- Signal Conditioning ICs

Power Management
- PMICs
- DC/DC Converters
- AC/DC Controllers
- LDO Regulators
- Battery Management ICs
- Battery Chargers
- Power Factor Correction (PFC) ICs
- Hot-Swap Controllers
- Voltage Supervisors
- Power Controllers

Interface & Communication
- USB ICs
- CAN / CAN FD
- LIN
- RS-232 / RS-485
- Ethernet
- PCIe
- I²C / SPI Interface ICs
- UART
- Transceivers
- Communication Controllers



02 MEMORY & STORAGE

Memory Products
DRAM • SDRAM • DDR / DDR2 / DDR3 / DDR4 / DDR5 • SRAM • NOR Flash • NAND Flash • EEPROM • EPROM • PROM • eMMC • UFS • Memory Modules • Flash Memory

Storage Components
SSD Components • Storage Controllers • Embedded Storage • Industrial Memory Solutions

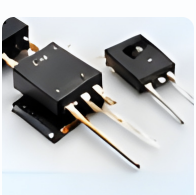


03 POWER SEMICONDUCTORS

Power Devices
MOSFETs • IGBTs • SiC MOSFETs • SiC Diodes • GaN Power Devices • Power Transistors • Power Modules • Intelligent Power Modules (IPMs) • Thyristors • SCRs • TRIACs

Diodes & Rectifiers
Schottky Diodes • Zener Diodes • TVS Diodes • Switching Diodes • Rectifier Diodes • Fast Recovery Diodes • Ultra-Fast Diodes • Bridge Rectifiers • Signal Diodes

Drivers
Gate Drivers • MOSFET Drivers • IGBT Drivers • Motor Drivers • LED Drivers



04 DISCRETE SEMICONDUCTORS

BJTs • NPN / PNP Transistors • MOSFETs • JFETs • Darlington Transistors • Small-Signal Transistors • Power Transistors • Diodes • Rectifiers • Zener Diodes • Schottky Diodes • TVS Protection Devices • Thyristors • SCRs • TRIACs



05 SENSORS & OPTOELECTRONICS

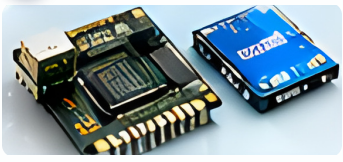
Sensors
Temperature Sensors • Pressure Sensors • Current Sensors • Voltage Sensors • Hall-Effect Sensors • Magnetic Sensors • Proximity Sensors • Motion Sensors • Accelerometers • Gyroscopes • Light Sensors • Optical Sensors

Optoelectronics
LEDs • Infrared LEDs • Photodiodes • Phototransistors • Optocouplers • Optoisolators • Laser Components • LED Drivers • Display Drivers



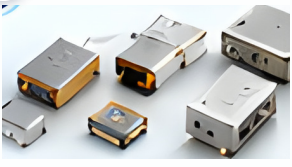
COMPLETE ELECTRONIC COMPONENT PORTFOLIO

06 RF, WIRELESS & CONNECTIVITY



RF ICs • RF Transceivers • RF Amplifiers • RF Switches • RF Modules • Wireless ICs • Bluetooth Components • Wi-Fi Components • GNSS / GPS Components • Cellular ICs • Antenna Components • RF Filters • RF Connectors

07 CLOCK & TIMING



Crystals • Crystal Oscillators • TCXO • OCXO • MEMS Oscillators • Clock Generators • Clock Buffers • PLLs • Frequency Synthesizers • Timing ICs • Real-Time Clocks (RTC)

08 LOGIC & DIGITAL



Logic Gates • Buffers • Inverters • Flip-Flops • Counters • Multiplexers • Demultiplexers • Encoders • Decoders • Shift Registers • Level Translators • Logic Controllers

09 PASSIVE COMPONENTS



Resistors

Chip Resistors • Thick Film • Thin Film • Metal Film • Wirewound • Power Resistors • Current Sense Resistors • Networks & Arrays

Capacitors

MLCC • Ceramic Capacitors • Aluminum Electrolytic • Tantalum • Polymer • Film Capacitors • Supercapacitors • Safety Capacitors

Inductors & Magnetic Components

Power Inductors • SMD Inductors • RF Inductors • Chokes • Common-Mode Chokes • Ferrite Beads • Transformers • Current Transformers • Magnetic Components • Filters

10 CONNECTORS & INTERCONNECT



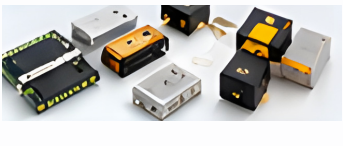
Board-to-Board Connectors • Wire-to-Board Connectors • Wire-to-Wire Connectors • FFC / FPC Connectors • Headers • Sockets • Terminal Blocks • Circular Connectors • D-Sub Connectors • RF / Coaxial Connectors • USB Connectors • Ethernet Connectors • Industrial Connectors • Automotive Connectors • Cable Assemblies

11 ELECTROMECHANICAL COMPONENTS



Relays • Solid-State Relays • Signal Relays • Power Relays • Switches • Push Buttons • Toggle Switches • Rotary Switches • DIP Switches • Contactors • Circuit Breakers • Fuse Holders • Thermal Protection Devices

12 PROTECTION & POWER COMPONENTS



Fuses • Resettable Fuses / PTC • TVS Protection • Surge Protection • ESD Protection • EMI Filters • EMC Components • Common-Mode Filters • Power Entry Components • Circuit Protection Devices

13 THERMAL MANAGEMENT



Heat Sinks • Thermal Pads • Thermal Interface Materials • Thermal Compounds • Cooling Fans • Blowers • Heat Spreaders • Thermal Management Components

14 DISPLAY & HUMAN INTERFACE

LCD Modules • OLED Displays • TFT Displays • LED Displays • Display Controllers • Touch Controllers • Touch Sensors • Keypads • Switches • Indicators





GLOBAL SOURCING & PROCUREMENT

15 SPECIALIZED COMPONENT SOURCING

HARD-TO-FIND COMPONENTS
Components that are difficult to locate through standard supply channels.

OBSOLETE & EOL COMPONENTS
Legacy, discontinued and end-of-life components.

SHORTAGE & ALLOCATION
Components affected by supply constraints and extended lead times.

LONG LEAD-TIME COMPONENTS
Alternative sourcing for components with extended manufacturer lead times.

URGENT REQUIREMENTS
Time-critical sourcing for production interruptions and urgent builds.

ALTERNATIVE / CROSS-REFERENCE SOURCING
Technically suitable alternative components based on customer requirements and approval.

16 PROCUREMENT SUPPORT

RFQ MANAGEMENT
Requirement review, supplier enquiries and quotation comparison.

GLOBAL SUPPLIER SOURCING
International supply-channel sourcing for challenging requirements.

SUPPLIER IDENTIFICATION
Identification of potential sources based on part, quantity and delivery requirements.

SUPPLIER QUALIFICATION
Sourcing-level commercial and supplier evaluation based on requirement.

COST OPTIMIZATION
Competitive sourcing and commercial comparison.

COMMERCIAL NEGOTIATION
Support with pricing, MOQ, lead time and commercial terms.

17 MANUFACTURER & BRAND SOURCING

SEMICONDUCTOR MANUFACTURERS

Allegro MicroSystems	AMD	Analog Devices
Broadcom	Diodes Incorporated	Infineon Technologies
Intel	Lattice Semiconductor	Marvell
Microchip Technology	Micron Technology	Nexperia
NXP Semiconductors	onsemi	Renesas Electronics
ROHM Semiconductor	Samsung Semiconductor	Semtech
Silicon Labs	STMicroelectronics	Texas Instruments
Vishay	Winbond	Xilinx / AMD

PASSIVE • INTERCONNECT • ELECTROMECHANICAL

AVX • Bourns • Coilcraft • KEMET • Littelfuse • Molex • Murata • Samtec • TDK • TE Connectivity • Vishay • WAGO • Würth Elektronik • Yageo

DON'T SEE THE BRAND OR PART YOU NEED? JUST ASK.

Whether you need one difficult-to-source component or a complete production BOM, share your requirement with us.

SEND US:

- MPN / PART NUMBER
- QUANTITY
- REQUIRED DELIVERY DATE
- PREFERRED MANUFACTURER
- APPROVED ALTERNATIVES
- TARGET PRICE

LakSphere ELECTRONICS PVT. LTD.

From Requirement to Supply — **Reliable Component Sourcing**

Semiconductors • Active Components • Passive Components • Connectors • Sensors • Power Components

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