

TOSHIBA

<http://toshiba.semicon-storage.com>

Semi: Arrow, Avnet, Digi-Key, Mouser, TTI
HDD: Arrow, ASI, Avnet, Ma Labs, Microland, TD Synnex

The World Leader in CMOS Technology for Highly Integrated Systems

- #1 Worldwide Discrete and Optocoupler Supplier
- Power Devices/MOSFETs: DTMOS, U-MOS (LV-MOS), Intelligent Power ICs, High Power Devices - High Reliability and High Efficiency
- Logic and Small Signal: Small Packages (WCSP) – Low Capacitance & RDSon
- Leader in advanced CCD Technology: Linear/Area Sensors
- Highly integrated family of image recognition processors and Automotive Devices
- Analog ICs and Microcontroller Units for Motor Control Applications, aimed at reducing world-wide energy consumption
- Interface Bridge ICs for Mobile Peripheral Devices
- RF/Microwave - Radio-Frequency Devices

Hard Disk Drives - HDD

Cloud-Scale and Enterprise HDDs provide unsurpassed quality and reliability for demanding 24/7 server and storage deployments. Leading CSPs and OEMs consistently rely on Toshiba for cost-efficient enterprise scale capacity with field-proven quality and power-saving TCO benefits.

- NL (Enterprise / Data Center)
- Mission Critical
- NAS
- Surveillance

Security Features:
SED now available

KIOXIA

<http://www.kioxia.com>

Memory: Arrow, Avnet, Digi-Key, Mouser
SSD: Arrow, Avnet, Ma Labs, Microland, TD Synnex

KIOXIA America, Inc. is the US-based subsidiary of KIOXIA Corporation, a leading worldwide supplier of flash memory and solid state drives (SSDs). From the invention of flash memory to today's breakthrough BiCS FLASH™ 3D technology, KIOXIA continues to pioneer cutting-edge memory solutions and services that enrich people's lives and expand society's horizons. The company's innovative 3D flash memory technology, BiCS FLASH™, is shaping the future of storage in high-density applications, including advanced smartphones, PCs, SSDs, automotive and data centers.

Memory

- eMMC
- UFS
- SLC NAND
- Managed NAND
- Memory Cards

SSD

- High performance Enterprise Class drives in both NVME & SAS
- Optimized Data Center class NVME drives
- Client (NVMe)

Security Features:
SIE, SED and FIPS

NANYA

<http://www.nanya.com>

Arrow, Memphis

Standard DRAM

- Offers JEDEC compliant, high quality DRAM devices, for a wide range of consumer and enterprise products.
- Serves as a one-stop shop covering a wide spectrum of DRAM technologies from DDR2, DDR3, DDR4 and DDR5, with densities ranging for 512Mb through 16Gb.

Low Power DRAM

- Low power consumption, along with high speed and bandwidth deliver superior performance.
- Diverse selection of product package, densities & temperature specifications.
- Ideal solution for portability, which includes handheld devices, infotainment systems in car, IoT applications.

KGD

- Leading KGD vendor in DRAM industry.
- High quality, advanced process technology, wide temperature range, and high speed KGD product.
- Customized RDL design and real-time technical service.
- Improve development and time to market while ensuring end product compatibility.

Automotive & Industrial

- Support automotive & industrial grade standard DRAM and low power DRAM.
- Certified with IATF16949 / AEC-Q100 to meet critical temperature & reliability requirements

MCP & eMCP

- Leading KGD vendor in DRAM industry.
- High quality, advanced process technology, wide temperature range, and high speed KGD product.
- Customized RDL design and real-time technical service.
- Improve development and time to market while ensuring end product compatibility.

intel Silicon Photonics

<https://www.intel.com/siliconphotonics>

Arrow, ASI, Avnet, Digi-Key, Ingram Micro, Mouser, TD Synnex

Intel® Silicon Photonics combines the manufacturing scale and capability of silicon with the power of light onto a single chip. Enabling the movement of vast amounts of information at 100 to 1600 Gigabits per second over long distances of up to several kilometers of fiber optic cables. This allows for high-bandwidth, software-configurable access to compute and storage applications

- Permits software defined infrastructure (SDI) deployments to decouple hardware and software resources for disaggregated data centers
- Allows for optical connectivity that interoperates with other technologies, such as Ethernet switches, Smart-NICs, and FPGAs

These optical transceivers are the optical interfaces for Ethernet switches, routers, and transport networking equipment, providing connectivity for large-scale cloud and enterprise data centers

Also available - Intel® Omni-Path Director Class:

- Switch 100 Series 24 Slot Base 1MM,
- Switch Fan Module 100 Series,
- Switch Leaf Module 100 Series 32 Port,
- Switch Management Module 100 Series,
- Switch Power Supply Module 100 Series,
- Edge Switch 100 Series 48 Port Managed 2 PSU,
- Host Fabric Interface Adapter 1 Port PCIe x8,
- Active Optical Cables,
- Passive Copper Cables

SPARK MICROSYSTEMS

<https://www.sparkmicro.com>

Digi-Key, WPG Americas

SPARK Microsystems is a fabless semiconductor company leading the way forward in UWB (Ultra-Wide Bandwidth) facilitating ultra-low power, ultra-low latency wireless communications. With its patented technologies, SPARK Microsystems delivers order-of-magnitude better bandwidth, latency and power consumption compared to legacy wireless protocols. The company also seeks to bring battery-less operation to the market.

SPARK's SR1000 UWB Wireless Transceiver Family enables no-compromise wireless including:

- Data rate of up to 10 Mbps @ 1.5 nJ/bit
- Unparalleled versatility: power consumption of 2 mW while transmitting and receiving at 1 Mbps, and scaling to 6 µW at 1 kbps
- Ultra-short wireless latency (50 µs for 1 kb)
- Time-of-flight positioning at 30 cm accuracy

- Applications: Gaming, Audio, AR/VR, Positioning, IoT, SMART Home
- Software Development and Evaluation Kits are available



<https://www.ssstc.com>

SSSTC, a subsidiary of KIOXIA Corporation (formerly LiteOn), offers a comprehensive lineup of SSDs for the Enterprise, Industrial, Business Client and Consumer markets. The SSSTC solutions comprise of a variety of interfaces and form factors to deliver the right product for the right application.

Why choose SSSTC?

- 100% In-House Taiwan-based Manufacturing and Development
- 100% Ownership of Source Code and Firmware
- 100% of SSDs Aging Tested

Products:

- Enterprise/Data Center SSDs
- Business Client SSDs
- Industrial SSDs
- Consumer Grade SSDs



<https://www.photonicsens.com>

Innovative Optics Technology

- Plenoptic camera (Light Field Camera)
- Lens/MLA/CIS

Image processing algorithm

- Depth map computation
- Simultaneous generation of RGB image

Single lens module Detection of extremely small objects in very short distance

- Capable to detect eyeball movement High precision ranging
- Error accuracy : 1% for 1m distance measurements, 3% for 4m distance
- 3D measure for scratch depth

- Emotion-recognition systems
- Real time 3D motion
- Good latency and speed for AR/VR APP (1.4Mp@30fps)
- Occlusion management
- Low power consumption
- BOM reduction



<https://www.faraday-tech.com>

With over 26 years of high R&D dedication, abundant market success experience, and customer recognition, Faraday is committed to silicon IP and ASIC design service domain, as well as providing most value-added SoC solutions in the market.

Successful Collaboration with Samsung Foundry

- Faraday's partnership with Samsung Foundry provides customers the most competitive and technologically advanced ecosystem.
- Strong commitment to advanced technology roadmap and product continuity - supports 14nm and below process technologies

Full Range of Process Technologies

- 65nm – 7nm processes for Library & IO, Memory, Analog, High-Speed Interface, and Processor Cores - over 3000 IPs available

ASIC Service

- SoC Design Service
- SoC Evaluation Platform
- Turnkey Solution
- FPGA-to-ASIC Service
- AI and HPC Solutions
- IoT MCU Solutions
- FinFET ASIC Solutions

Silicon IP

- AI Applications
- 5G Applications
- IoT Applications
- Giga-bit Ethernet PHY Solutions
- 28G Programmable SerDes PHY (56G in development)



<http://www.sunonusa.com>

Avnet, Bisco, Bossard, Bravo, Carlton-Bates, Digi-Key, Future, RS Americas, Sager

#1 Manufacturer of DC Fans and Blowers

- Designer and manufacturer of a full range of high-performance fans, blowers and coolers
 - DC Brushless Fans
 - DC Blowers
 - Custom / Liquid Cooling Solutions
 - AC Fans
 - CPU Coolers
 - Custom Fan Trays

- Manufactures some of the industries smallest, thinnest and most power efficient fans and blowers in sizes ranging from 0.315 (8mm) to 10 inches (250mm) in outside diameter and from 0.157 inches (4mm) to 1.5 inches (38mm) in thickness
- More than 700 different standard models are available
- Introduced the "Super Green" family of fans in 2009, 50% power reduction, very efficient



<http://www.fujikura.com>

- A technology leading company in the fields of IT, Electronics and Energy/ Electric Power infrastructure
- Provides a range of optical communication devices for next generation broadband communications
- Delivers a wide range of products including electronic materials and automotive components

Main Products:

- Optical Fibers and Cables
- Image Fiber and CMOS Imaging Modules
- Industrial / Power Cables
- FPC
- Membrane Switch
- Micro Coaxial Cable and Assembly
- Electronics Wire Assembly

DDK Connectors:

- Circular
- Coaxial
- FPC
- RF
- Ribbon / Flat Ribbon
- ZIF



<http://www.fusionww.com>

Fusion Worldwide is a sourcing distributor, not a stocking distributor. They will engage in vendor inventory programs where they hold and release parts to a schedule. They will also work with Customer's in the acquisition of excess inventory

- Boston Headquartered with multiple locations in the USA, Europe, China, Korea, Singapore, Japan, and India
- In business for 20+ years – over \$2.3B annual sales
- Support from over 10K suppliers
- QA – they test and guarantee all parts shipped to their customers
- Fusion mirrors the manufacturer's warranty to the customer
- Fusion is provided the part numbers and quantity needed; they will turn a response in 24 hours.