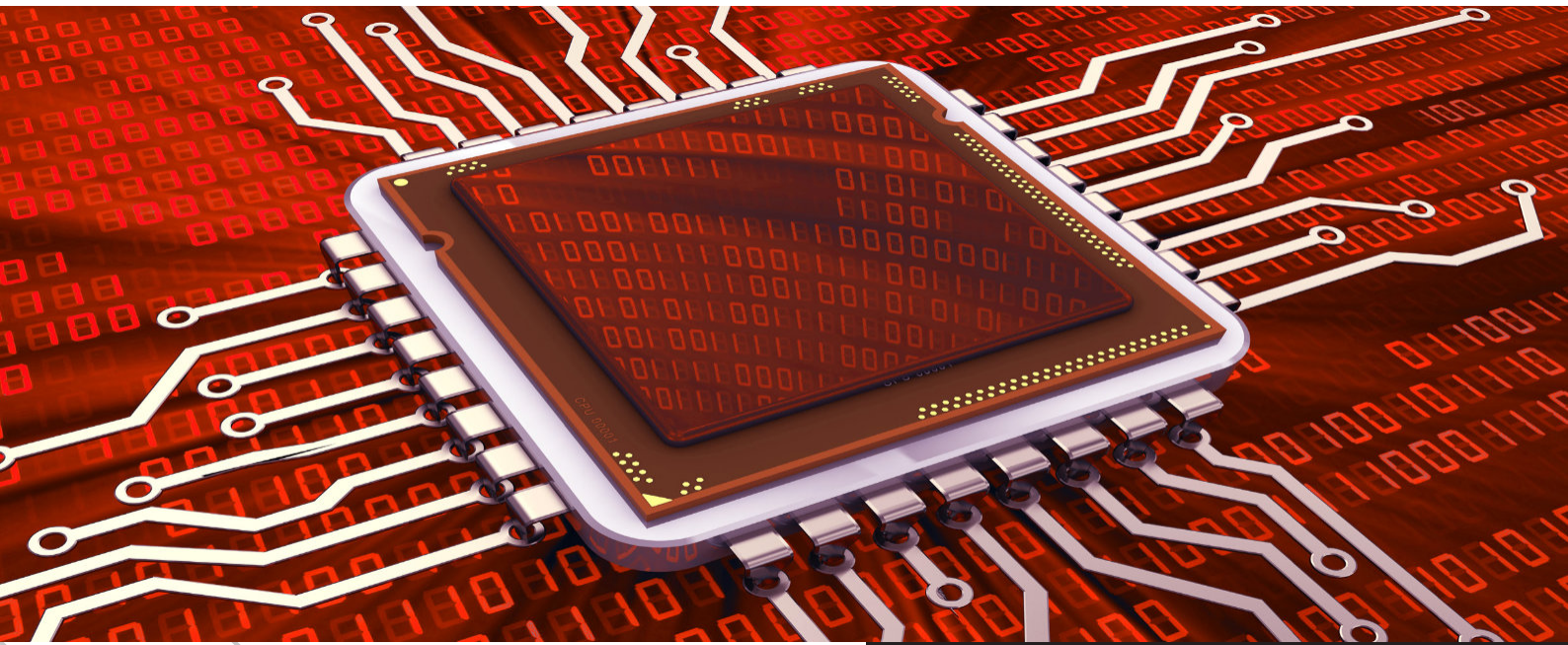




Linecard

A series of light gray circuit traces with circular nodes, extending from the left edge of the page towards the center, framing the text.

Semiconductors

Power, Timing and Passive
Components

Displays, Accessories
and Optoelectronics

Solutions & Services

Semiconductors



Analog

Amplifier (OPA, INA, μ OPA, nOPA, zero drift OPA)
Audio & Video
ADC, AFE & DAC
Interface & Isolator ICs
CAN, RS485/422/232 TRX
Power Management
LDO, PMIC, DC/DC, V-Ref & Supervision
Motor Driver



μ ASIC
DC/DC Modules & Load Switches



ASICs
Connectivity Solutions
Graphic Controller
Microcontroller
Cortex M0+
proprietary 4-bit - 32-bit Cores
Sensing Solutions (IMU & Gyro)
Voice Synthesis ICs



Wi-Fi + Bluetooth Solutions
ESP Modules
integrated Flash 4-32MB
optional PSRAM
ESP System On Chip (SoC)
RISC-V Core
X-tensa® Dual/Mono Core



Wireless
Bluetooth LE 5.4 SoC
RFID
LF, HF (NFC) & UHF
Dual - Frequency
Sensor Fusion & Energy Harvesting
Power Management & Supervisory
ULP Microcontroller
LCD Controller & Driver
ASIC



DDR1 RAM
Low Power SRAM
Parallel NOR Flash
SPI Flash
SDRAM



DC/DC Converter (Buck & Boost)
LDO
Battery Management Solutions
LED Driver ICs
Interface Protection
OVP IC & Load Switches



Analog
Battery Management
Li Battery & Wireless Charger
Communication Interface ICs
CAN & USB
Digital Sensors / Sensor Modules
Display Driver Solutions
LCD Controller & Driver
LED Driver (AC/DC)
EEPROM Memory
Microcontroller
8-bit & Cortex M0+/M3/M4
Application Specific MCU
Motor Driver
Power Management ICs
AC/DC & DC/DC Converter, LDO
Wireless
IR, sub 1 GHz & 2.4 GHz RF / BLE



Microcontroller
Application Specific SoC
Cortex M0+
Cortex M3 with FPU
Cortex M4F
Bluetooth Solutions
Secure Elements



Digital Hall Sensors
Electric Compass
Environmental Sensors
Humidity
Temperature
Hall Switch



LVDS/DVI/HDMI/MHL/DP
Transmitter, Receiver, Splitter,
Switch, Repeater, Bridge, CEC



Wireless Solutions
Bluetooth Modules
LoRa Modules & ICs
2.4 GHz RF Modules
SubGHz Modules & ICs
Active Responder w/ LFWake-Up
Sensors
Pressure & Environmental



Wireless Modules
Bluetooth (BLE, Classic, Audio)
Wi-Fi (4, 5, 6 & 7)
Wireless Solutions
RTLS Systeme (AoA, UWB)
RFID Solutions (TAG & Reader)



EEPROM Memory
LED Drivers
Microcontroller (8- & 32-Bit)
Power Management ICs



Automotive SerDes Devices
APIX1 / APIX2 / APIX3
Digital LED Drivers for
Automotive Applications

Semiconductors



DRAM Components
 DDR1, DDR2, DDR3, (LP)DDR4
 ECC DRAM
 Mobile DDR
 SDRAM
 DRAM Modules
 different DIMM Sizes
 up to 32 Gbyte
 NAND Flash Products
 Variety of form factors like
 eMMC, SD, USB 3.0,
 PATA, PCIe



Power Management
 AC/DC & DC/DC Solutions
 LED, Gate & Motor Drivers
 Battery Management Solutions



Isolation
 Isolated Interface IC
 TRX for CAN, LIN, RS-485, I2C
 Signal Isolators w/ iso. Power
 Isolated ADC & Amplifiers
 Isolated Gate/H-Bridge Drivers
 Sensor Products
 Pressure Sensors
 Magnetic Sensors
 Other Sensor solutions
 Automotive Products
 Transceiver
 LED Driver
 Motor Driver SoC
 SiC Power Discretes



Automotive Cellular Modules
 LTE & 5G
 Wireless Devices (Ind. & Autom.)
 M2M Modules (w/ GNSS)
 LPWA (NB-IoT / Cat.M)
 4G & 5G
 GNSS Modules & Antennas
 Cloud Services



Audio/Video Solutions
 Audio ADC, Codec & DAC
 Voice IC & ChipCorder
 Audio MCU
 Smart Amp (DSP + Audio Enh.)
 Battery Management Solutions
 Cloud Computing Solutions
 3D Time-of-Flight Sensors
 Laser Diodes
 Microcontroller
 8051 & propr. 8- & 32-bit Cores
 Cortex-M0/23/33/4F/55/7
 Microprocessor (32-bit & 64-bit)
 MOSFETs
 Motor Control MCUs & Driver ICs
 NFC TAG & Security ICs



Microcontroller
 Cortex M0+ / M33

Book
 appointment
 here!



Ethernet PHY, Switches & NIC
 Automotive TSN & SerDes



Analog ASICs
 Audio ICs
 Crystal Oscillator ICs
 DC/DC Converter
 Sensor Signal Interfaces
 Resistive & Capacitive
 Time Code Receivers



Ultra-Wide-Band Transceivers
 3.1 - 5.75 GHz & 6.0 - 9.25 GHz



Automotive Cellular Modules
 V2X, LTE
 GNSS & Wi-Fi-Modules
 M2M Modules (LPWA, 4G, 5G)
 Smart Modules (MPU + Cellular)



DRAM Products
 HYPERRAM™
 Mobile DRAM (LPDDRx)
 Specialty DRAM (DDRx)
 NOR Flash
 SPI to Octal Flash
 Authentication Flash
 NAND Flash
 QSPI & Octal
 Multi Chip Package
 TrustME® Secure Memory



FCT/FCT-T Logic
 (HiRel) EPROM/EEPROM Memory
 (HiRel) SRAM Memory



Secure Microcontroller
 Secure Microcontroller Solutions
 Smart Card Readers



DRAM Products
 DDR3, DDR4, LPDDR4/4x
 SPI NOR Flash
 NAND Products (SPI, PPI, SD, eMMC)



DRAM Components
 SDR, DDR, DDR2, DDR3L,
 DDR4, LPDDR4, LPDDR4X
 DRAM Modules (SO- & UDIMM)
 DDR3L & DDR4
 SLC NAND ICs
 Industrial & Automotive Options

Power, Timing and Passive Components



All-Silicon CMOS Oscillator
10G Multi-Rate Ethernet PHY



Connectors
Memory (SD, CF, Smart Card)
PCB (M.2, Mini PCI, DIMM, SIM)
I/O (SPE, HDMI, USB, RJ45, SPF)
Circular
Power
FPC Board-to-Board
Micro Coaxial RF
Waterproof Solutions
Custom & Standard Cables



Power Discretes
Diodes (FRD, Si/SiC Schottky, TVS, Switching, ESD/EMI)
BJT (Si NPN, PNP, digital)
MOSFETs
LV & HV Si MOSFETs
SiC MOSFETs
GaN HEMT
Automotive Solutions
KGD & Wafer



Precision Timing
STRATUM Clock Modules
OCXO, TCXO, Si XO
Clock Buffer
RTC, Crystals
Network
IEEE1588v2 Sync
Ethernet PHY
RF Circulators, Isolators



Automotive Solutions
Broadband Magnetics
LAN Magnetics
Power Magnetics
RJ45 Connectors w/wo magnetics
USB Connectors



LMU Batteries
Li-Po Rechargeable Batteries
Battery Packs up to 200Ah+



Crystal Units / SAW Resonators
Oscillators
Programmable XO, SPXO, TCXO, VCXO
Real Time Clock Modules



Trench, Field Stop IGBT
BJT & LV, HV, SJ MOSFETs
Power IC (Regulators, Driver, Comp.)
Diodes & Rectifiers
SiC Diodes & FETs



Discrete Magnetic Transformers
RJ45 Connectors w/wo magnetics
USB Connectors



AT Crystals for special use
Clock Crystals
Real Time Clock Modules



Discrete IGBTs
HV, LV MOSFETs
MV MOSFETs (TOLL Package)
SJ MOSFETs



Connectors (Signal & Power)
Board-2-Board
Wire-2-Board
JST, GWT, RAST
Wire-2-Wire



Electromagnetic 3D-Sensor
EMC Filters
Inductive Components
Chokes
Inductors
Transformers
PLC Components
RFID Antennas
Antennas
Coils
Transponders



Battery Holders
Lithium Coin Cells
Lithium Ion Polymer Batteries
Silver Oxide Coin Cells
Rechargeable Coin Cells



Antennas (LDS, FPC, PCB, Patch, Steel, Spring, Ceramic, External)
Cellular (2G to 5G, V2X)
LPWAN (LoRa, NB-IoT, Cat-M)
GNSS, BT, WiFi, NFC, others



Timing Devices
Crystal Units
Oscillators

Displays, Accessories and Optoelectronics



Display Modules
TFT, AMOLED, Micro OLED,
Mini LED
Display & Signage Products
Display Integration Services



Custom EPD Displays
Graphic EPD Displays
Segmented EPD Displays



Custom EPD Displays
Graphic EPD Displays
Segmented EPD Displays



Custom LCD Panels & Modules
LCD Modules
OLED Displays
TFT Displays



Graphic EPD Displays
Segmented EPD Displays
Graphic Tool Kit



Custom LCD Panels
TFT Displays
Standard & Sunlight Readable
OLED Displays
Touch Panel Integration &
Optical Bonding



Custom LCD Panels & Modules
LCD Modules
OLED Displays
TFT Displays



Touch IC & Solutions
Touch-Screen Controller
Touch-Screen Sensor
Touch-Button IC
Touch Panel Integration (3D Shape)

Solutions & Services



IoT SIM Cards
IoT SIM IC
OS Software Tools



Computer on Modules
Embedded PC
Edge AI
Digital Signage Solutions
Industrial Wireless & Memory



Edge Security Solution
Bluetooth & Wi-Fi Module
Mobile App Security
Cloud Security Services



Display Solutions
Touch
Display Modules
Display Driver
Bluetooth Beacons



AC/DC Power Supplies
Board & Wall Mount
Open Frame, DIN Rail, Chassis
DC/DC Power Supplies
Isolated, Non-Isolated & Wide VIN



ASIC Turn-Key Services
Production Services
Advanced Package Technology
IP Portfolio
High-Speed Interface & Links



AC/DC Power Supplies
Board Mount
Open Frame
DC/DC Power Supplies
Isolated & Non-Isolated



Camera Modules
Interface & Lens Options
Rolling & Global Shutter
IP Core
JPEG, JPEG-XL, Shikino-LS

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