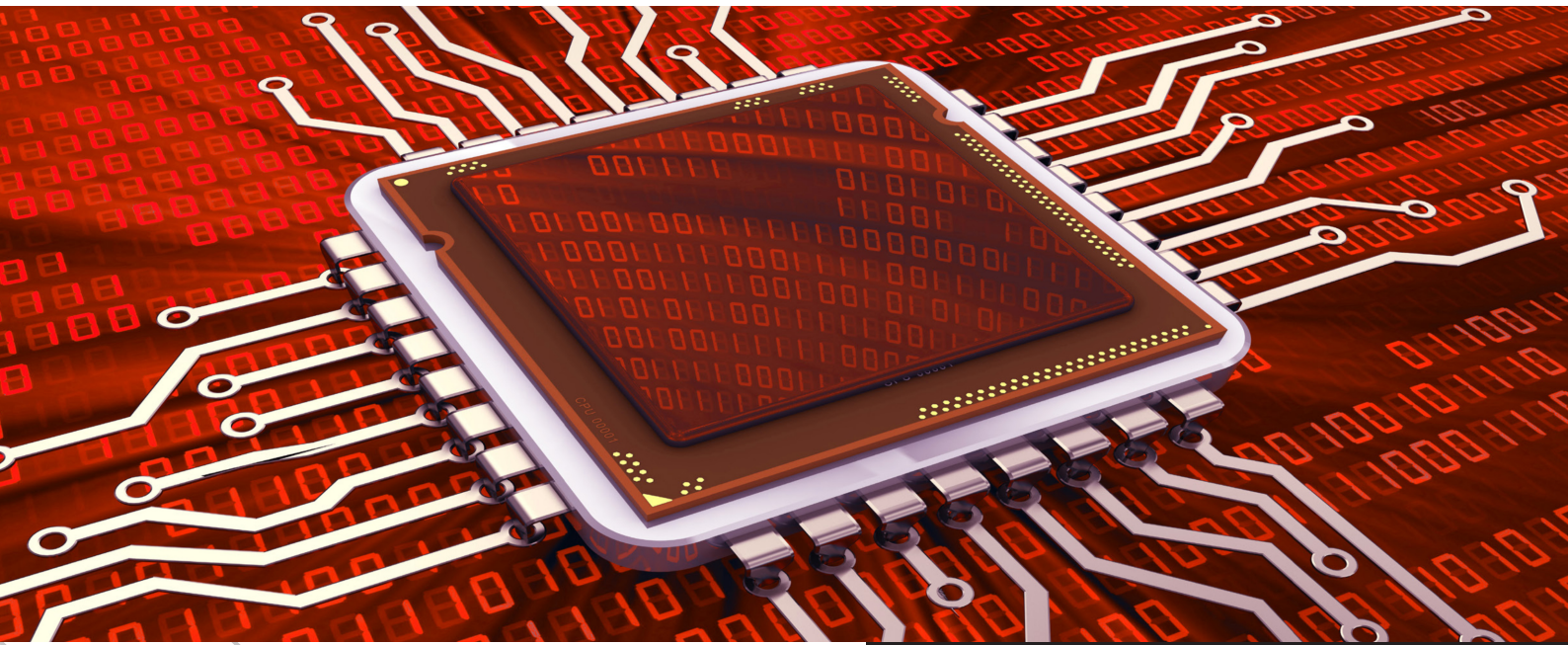




Linecard



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
 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



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



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



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



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



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

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



32-Bit Microcontroller
Cortex-M0 / M0+
Cortex-M3
STAR-MC1
Motor Control Solutions



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



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



Audio/Video Solutions
Battery Management Solutions
Cloud Computing Solutions
Image Sensors
ISD Voice ICs
Laser Diodes
LED Driver ICs
Microcontroller
8051
Cortex M0/M23
Cortex M4F
Cortex M7
proprietary 8-bit & 32-bit Cores
Microprocessor (32-bit & 64-bit)
MOSFETs
Motor Control MCUs
Motor Driver ICs
NFC TAG & Security ICs
RF Solutions



Automotive Cellular Modules
V2X, LTE
GNSS & Wi-Fi-Modules
M2M Modules
LPWA (NB-IoT / Cat.M)
4G
LTE-A
5G
Smart Modules (MPU + Cellular)



Secure Microcontroller
Secure Microcontroller Solutions
Smart Card Readers



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
Environmental Sensors
Magnetic Position Sensors
Sensor Elements
Signal Conditioning ICs

Automotive Products
Transceiver
LED Driver
Motor Driver SoC

SiC Power Discretes
Schottky Diodes



Amplifiers (CATV, SSPA, LNA, HF)
Discrete Transistors & Switches
GaAs pHEMTs, GaN HEMTs
RF Filters, Duplexers & Passives
Frequency Converters & Sources
IoT Controllers
Optical
Sensor Fusion
Power Application Controller PAC
Intelligent Motor Controller
Intelligent Battery Monitoring

Power Solutions
Modular PMIC (ActiveCiPS)
Power Management for RF
Power Loss Protection
DC/DC Converters



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



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



Microcontroller
Cortex M0+ / M33



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



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



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



Discrete Magnetic Transformers
RJ45 Connectors w/wo magnetics
USB Connectors



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



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



LMO Batteries
Thinfilm
Pouch Pack
Special Shape & Custom
Li-Po Rechargeable Batteries
Thinfilm
Pouch Pack
Special Shape (Round & Custom)
Battery Packs up to 200Ah+



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



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



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



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



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



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



AT Crystals for special use
Clock Crystals
Real Time Clock Modules



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



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

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



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



RFID and NFC Inlays
RFID and NFC Labels



AC/DC Power Supplies
Board Mounted
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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