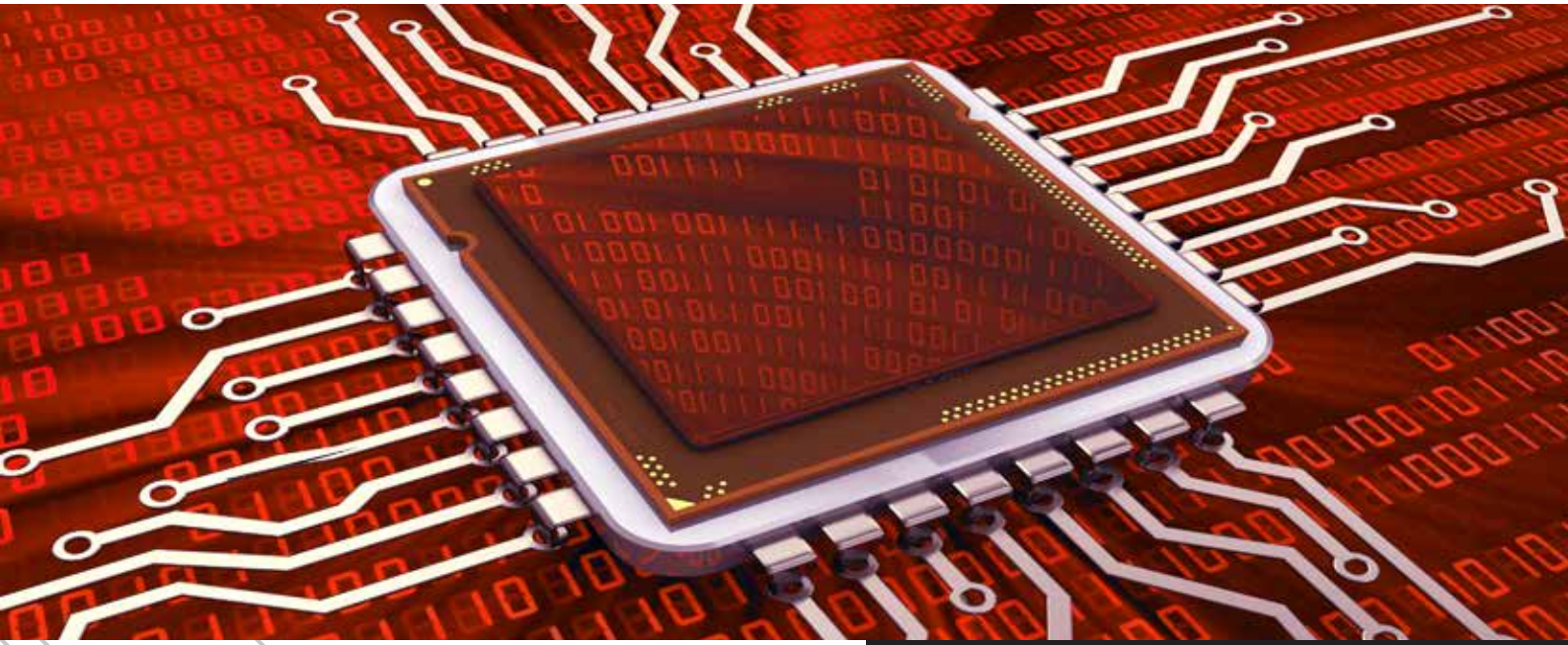




Linecard

Semiconductors

Power, Timing and Passive
Components

Displays, Accessories
and Optoelectronics

Solutions & Services

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LATEST VERSION OF OUR LINE CARD ONLINE



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



DDR1 RAM
Low Power SRAM
Parallel NOR Flash
SPI Flash
SDRAM



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



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



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



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

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
Integrated Pre-Driver



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



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
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



Microcontroller
Cortex M0+ / M33

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



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



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



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



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



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



AT Crystals for special use
Clock Crystals
Real Time Clock Modules



Discrete Magnetic Transformers
RJ45 Connectors w/wo magnetics
USB Connectors



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

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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