



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 1GHz & 2.4 GHz RF / BLE



Digital Hall Sensors
 Electric Compass
 Environmental Sensors
 Humidity
 Temperature
 Hall Switch



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



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



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



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



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



Microcontroller
 Cortex M0+



Analog ASICs
 Audio ICs
 Crystal Oscillator ICs
 DC/DC Converter
 Sensor Signal Interfaces
 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)



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



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



DRAM Products
 NOR Flash
 NAND Flash



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



Secure Microcontroller
 Secure Microcontroller Solutions
 Smart Card Readers



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 Discrettes
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
Thinfilm
Pouch Pack
Special Shape & Custom
Li-Po Rechargeable Batteries
Thinfilm
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

Enabling an Intelligent Planet

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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