

COMPETENCE

RESPONSIBILITY

CAPABILITY

MOTIVATION

FLEXIBILITY

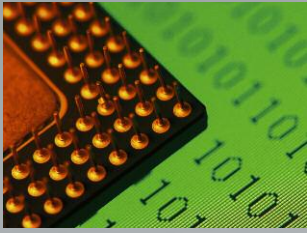
Foto: © xubingruo



Leading Manufacturer

CHANNEL MICROELECTRONIC
LINE-CARD

A ASIC



GATE ARRAY:

- Prefabricated bulk of transistors arranged in form of an array which are connected by customers' design
- 0,35µm S1L50K-series -> 815k Row gates, 4LM
- 0,25µm S1L60K series -> 1.007k Row gates, 4LM
- 0,6µm S1L35K -Series -> 161k Row gates, 3LM

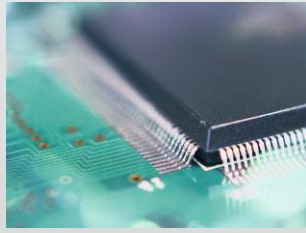
EMBEDDED ARRAY:

- An embedded array combines the function of a Gate Array with system level functions as hardmakros
- 0,35µm S1x50k Series
- 0,25µm S1x60k Series
- 0,18µm S1x70k Series
- Hardmakros: ROM; RAM; I/O; CPU; Analog; etc.

MIXED SIGNAL:

- Specialized for automotive
- High voltage process
- -> 120V; -> 10A; -> 200°C
- Low power
- EPROM; Flash, ROM; RISC; HC05; HC012

A ASSP



DISPLAY CONTROLLER:

- Standard LCD-controller
- OLED-controller
- Image-controller

EPD-CONTROLLER / DRIVER:

- Standard-controller for color AM and monochrome EPD-displays
- Segmented-EPD-driver-ICs

LED-DRIVER:

- RGB-driver
- Single- and multichannel-driver
- Power-LED driver

BUS-/INTERFACE-ICs:

- KNX/EIB transceiver
- I/O-Link transceiver/dual and master/slave
- IEEE 1394-ICs
- Network-controllers
- USB
- LIN-BUS
- CAN-BUS

MOTOR DRIVER-ICs:

- Fan-control
- Ripple-counter
- Bus-controlled stepper-motor-driver
- EC motor-controller
- BLDC motor-ICs

B BATTERIES



LITHIUM BATTERIES:

- Standard coin cells
- Tabbed cells (two/three pin)
- Power Modules
- Custom solutions
- Encapsulated miniature-batteries
- Silveroxide
- 3 Volt lithium-manganese dioxide batteries

RECHARGEABLE BATTERIES:

- Lithium coin cells
- Lithium-polymer batteries (Li-Po)

BATTERY HOLDERS:

- Through-hole vertical and horizontal
- SMT
- Low-cost metal SMT holder

D TIMING DEVICES



CRYSTALS:

- Low-medium-high-frequency
- SMD-types
- Cylinder-types
- Clock-crystals

HC49 CRYSTALS:

- HC49
- HC49 U
- HC49 US (SMD)

OSCILLATORS:

- Low-medium-high-frequency
- DIP & SMD
- LOW Jitter
- Spread-spectrum
- Programmable (PLL)
- Voltage-controlled (VCXO)
- Temperature-compensated (TCXO)
- Multi-output

SENSING DEVICES:

- Gyro Sensor
- Quartz Pressure Sensor
- Temp. Sensing Crystal

RTCs:

- Crystal built-in
- 3 Wire-serial
- 4 Wire-serial
- 4bit parallel
- I²C-BUS
- 3,4ppm to 20ppm

SAW FILTER

O OPTICAL DEVICES



E-PAPER-DISPLAYS:

- Bistable
- Reflective
- Robust against shock and vibration
- Monochrome & tricolor

Active Matrix:

- 1,4" to 13,3"
- Up to 300 DPI
- COG
- EPD-PCAP-Modules

Customized Segmented:

- Indicators & Icons
- Numeric
- Starburst
- Mosaic
- SDC & SDM

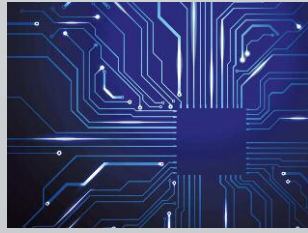
LCD-MODULES:

- Character-displays
- Graphic-displays

LED:

- SMD LEDs package-type 0603 and 0805 (SpiceLED)
- PLCC2 (DomiLED)
- PLCC4 (Power DomiLED)
- half-PLCC (mini DomiLED)
- RGB PLCC (multi DomiLED)

M MICROCONTROLLER



4-BIT:

■ S1C63 Series

High-end 4-bit μ Controllers with a wide variety of peripheral circuits. All models contain LCD-drivers and up to 32k ROM on low-power basis.

16-BIT:

■ S1C17/S1C17W Series

Powerful 16-bit CPU, line-up. Integrating a wide choice of ROM and RAM sizes, image-drivers, sensor-interfaces and other high-performance peripheral circuits into a single-chip-design. Low voltage, power-saving technology.

32-BIT:

■ S1C33 Series

Application-specific series with EPSON's original 32-bit RISC-core for telecommunication, hand-terminal, mobile-computing. A large selection to Royalty-Free middleware leads to short development -times.

WORKBENCH:

- Tools and workbenches are available for all EPSON μ Controller. C-GNU-compiler for 16-bit- and 32-bit-controllers.

S SENSORIK-ICs



OPTICAL SENSORS:

- HALIOS® Gesture Switch-IC

PASSIVE INFRARED SENSOR IC:

- PIR Signal Conditioner/Controller

PRESSURE SENSORS:

- Amplified Analog & Digital
- Un-/ Compensated / Die / Package

CURRENT-SENSOR:

- Integrated AMR current sensor-IC

SMOKE DETECTOR CONTROLLER:

- for network addressable, optical smoke detectors

ULTRASONIC:

- Digital Ultrasonic Transducer Driver and Signal Processor

SENSOR SIGNAL-PROCESSOR:

- SSP for Resistive Bridges

THERMOPILE:

- Single Channel Sensor Signal Processor
- Sensor Signal and Temperature (DOC1™)

SAFETY:

- Safety Pressure Sensor with PSI5 Interface

T TOUCH



STANDARD PCT MODULES:

- 4,3" 16:9
- 5,7" 4:3
- 7,0" 16:9
- 8,4" 4:3
- 10,4" 4:3
- 12,1" 4:3
- 12,1" 16:9
- 15,0" 4:3
- 21,5" 16:9
- 24" 16:9
- Standard glass cover lenses

CONNECTION BOARDS (SDB):

- SDB-40 DI
- SDB-80 DI A
- SDB-80 DI B
- I2C Master Board

START-2-TOUCH KIT:

- 10,4" EVA-Tool on glass

CONTROLLER:

- Tango C-series
- Tango F-series

CUSTOM SPECIFIC:

- Each standard size is a project-specific consulted product.
- A custom-cut and design-in production is possible for specific requirements.
- Custom glass cover lenses

SUPPORT / SERVICE:

- Each system-integration is technically and physically supported by Channel.

OS SUPPORTED:

- Win 7
- Win XP
- Win CE 6.0
- Linux
- Others on request



Human Interfaces; Terminals; Automotive; Industrial Controls, LED General Lighting; ESL; Commercial Displays; Backlights; Medical Indicators;



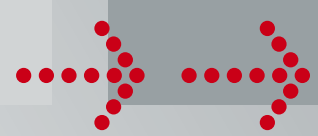
Watches; Time-Catching; Temperature-Sensing; Temperature-Tag; Remote-Control; PDA; Healthcare; Home-Appliance; Mobile-Equipment;



Systems; Keyboard; Air-Condition; Ventilation; Control-Engineering; Automation; Condition-Recognition, Automotive



System Integration; Industrial Controls





Unser Ziel ist es mit Ihnen gemeinsam wettbewerbsfähige Anwendungen zu entwickeln und Sie dabei zu unterstützen Ihr Design erfolgreich am Markt zu positionieren. Dabei stehen technische Innovationen und hohe Maßstäbe in der Gestaltung von neuen Designs immer im Fokus. Nicht nur wettbewerbsfähige Funktionalitäten verschiedener Komponenten, sondern auch signifikante Vorteile bei der Weiterverarbeitung sind essenzielle Anforderungen, denen wir mit unseren Produkten gerecht werden.

Wir bieten ein breites Spektrum an hervorragenden Produkten, die in einem weiten Bereich von automatischen Steuerungsgeräten und Systemen in verschiedenen Märkten zum Einsatz kommen. Die Bereitstellung einzigartiger Parameter für smarte und effiziente Anwendungen ist ein Garant für Stabilität und Wachstum. Die Channel Microelectronic GmbH liefert exklusive Produkte, die internationale Standards erfüllen, **um Mensch und Umwelt zu schützen**. Wir führen ausschließlich Komponenten und Bauteile, dessen Herstellungsprozesse von akkreditierten Firmen geprüft und zugelassen wurden.

Persönliche Kundenbetreuung ist mit unserer Firmen-Philosophie fest verwurzelt. Seit 25 Jahren verbinden wir erstklassige Produkte und Dienstleistungen mit dem Anspruch unserer Kunden - eine stabile Supply-Chain zu entwickeln und langfristige Partnerschaften zu etablieren. Dazu ist es erforderlich Hintergründe zu kennen, Veränderungen zu beobachten und gemeinsam Wege zu finden, wie bestehende Kooperationen weiter vertieft werden können.