



8/32-bit MCU's, peripheral semiconductors & wireless sensor modules

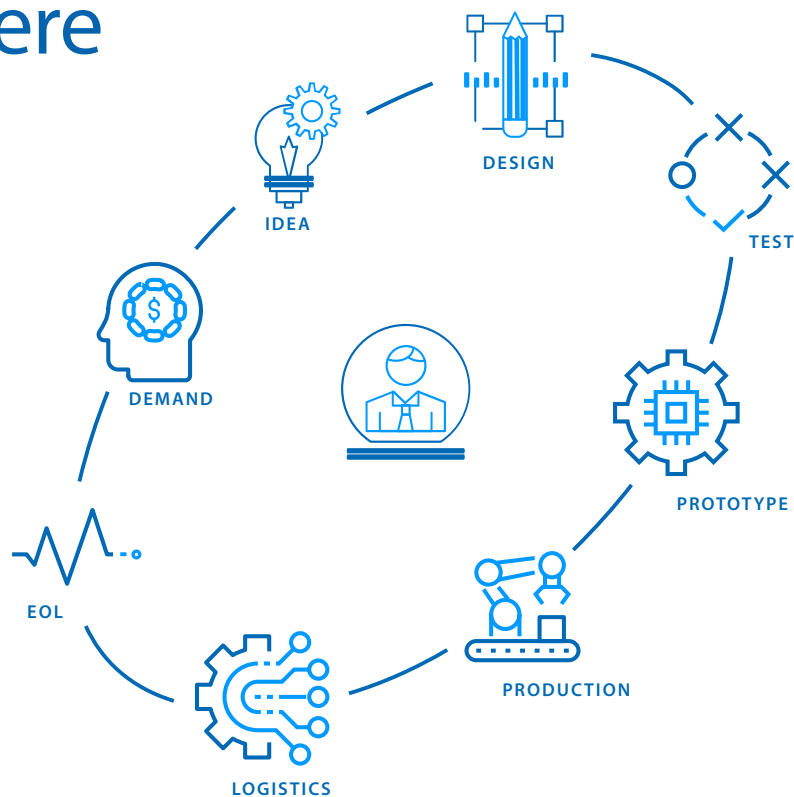


# Holtek & Alcom



Holtek Semiconductor is a leading professional IC design house in Taiwan having its major business activities focused in the area of 8/32-bit microcontroller and peripheral component design. Their device range includes general purpose and specialised types of microcontrollers. Additionally, Holtek supplies a range of power management devices, LCD and LED drive/control chips, ultra-high resolution fingerprint identification sensors and a variety of sensor modules and other peripheral devices. With Holtek's products and our highly educated and experienced team of Alcom's engineers we will guide you through your next big idea.

## Co-creation starts here



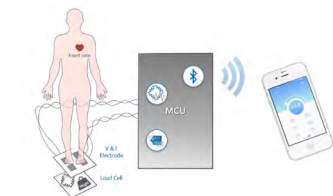
*Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.*



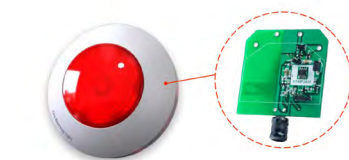
# Applications



WIRELESS



HEALTH CARE



SECURITY



COMMUNICATION



HOME APPLIANCES



VEHICLE



ELECTRONIC CONTROL AND MOTOR



ILLUMINATION AND DISPLAYS



POWER

## Creative ideas, Infinite possibilities





# Product Overview

## General Purpose MCU

- 32-Bit Flash MCU
- 8-Bit Flash MCU
- 8-Bit High Supply Voltage Flash MCU



## USB MCU

- USB Interface Flash MCU



## OPA MCU

- OPA Flash MCU



## Security & Safety

- Security & Safety Flash MCU
- Sound Effect Flash MCU
- Security & Safety IC



## Display MCU

- 8-Bit LCD Display Flash MCU
- 8-Bit LCD/LED Flash MCU



## Motor MCU & Peripheral

- Motor controller & Driver Flash MCU
- Motor controller & Driver Peripheral



## Health & Measurement

- 24-Bit A/D Flash MCU
- 24-Bit A/D Peripheral
- Health Care Flash MCU
- Measurement Flash MCU
- R to F MCU

## Display Driver

- LCD Controller & Driver
- LED Controller & Driver
- White LED Backlight Driver
- AC/DC LED Lighting Driver

# Product Overview

## Touch MCU & Peripheral

- Touch Flash MCU
- Ultra-low power Touch Flash MCU
- Touch Key IC



## Wireless

- BLE
- 2.4GHz RF
- Sub-1GHz RF
- NFC
- Infrared/ Encoder/Decoder
- RF Module

## Communication

- Interface bridge
- Telecom IC



## Battery & Power Management

- Battery Management
- Li Battery & Power Management Flash MCU
- Inverter Flash MCU
- LDO & Detector
- DC/DC converter
- AC/DC converter



## Voice & Music MCU

- Cortex-M0+ 32-Bit Voice/Music Flash MCU
- Voice & Music MCU
- Voice Record/Playback Flash MCU



## EEPROM Memory

- PC EEPROM



## Analog

- General OP Amplifier
- Audio Amplifier
- 24-Bit A/D Peripheral

## Video

- CCD/CIS Analog Signal Processor
- Currency recognition Processor

# New product releases

## CO/GAS DETECTOR MCUS

Holtek introduced new CO/GAS detector MCUs, the BA45F6830 / BA45F6840 / BA45F6850 series. The devices include a fully integrated CO/GAS detection AFE and a multi-level adjustable LDO.

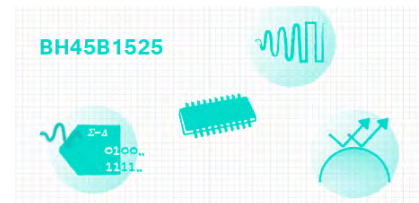


## NEW BC7701 BLUETOOTH 5.2 BLE CONTROLLER

New Holtek Bluetooth 5.2 Bluetooth Low Energy (BLE) controller, the BC7701, is now certified by BQB, the Bluetooth Qualification Body. The BC7701 has excellent RF characteristics, low-power consumption and supports up to a 2Mbps data rate.

## ADVANCED 24-BIT A/D PERIPHERAL IC

The BH45B1525 includes a low noise programmable gain amplifier, a PGA, a high accuracy 24-bit A/D converter and a SINC4 filter circuit. The output data rate supports a range of 10Hz to 1280Hz and the Effective Number of Bits (ENOB) can be up to 22.8 bits. The device has the benefits of high accuracy, high anti-RF interference and high anti-jitter.



## ARM® CORTEX®-M0+ BLUETOOTH 5.2 BLE MCU

New Bluetooth 5.2 Arm® Cortex®-M0+ BLE (Bluetooth Low Energy) MCU, the HT32F67741, which has passed the BQB (Bluetooth Qualification Body) certification. The device is suitable for use in health care products, home appliances, beacons, intelligent toys, data loggers, human interface devices (HID) service, etc.

## VOICE PERIPHERAL MCU

New Voice Peripheral MCU, the HT68FV022. One special feature of this device is its internal 16Mbit Voice Flash Memory which can be repeatedly updated with up to 400 seconds of voice content. This makes the device suitable for various voice application terminal products such as smart home appliances, consumer electronic products, etc.



## TINYPOWER™ 200MA SYNCHRONOUS STEP-UP CONVERTER

New high efficiency synchronous step-up converter product series, the HT77xxFA. This series of devices are suitable for use in remote control products, wireless mice, blood glucose meters, electric clippers and thermo-hygrometers. The integrated Schottky diode will reduce layout area, which is a great benefit in small scale mobile devices.

# Alcom product portfolio

ELECTRONIC COMPONENT SOLUTIONS	WIRELESS EMBEDDED CONNECTIVITY & SENSORS	WIRELESS & INDUSTRIAL CONTROLS NETWORKING	DISPLAY & TOUCH
LED & SOLID STATE LIGHTING	POWER & EMC	RUGGED MOBILE COMPUTING	EMBEDDED SYSTEMS, AI & EDGE COMPUTING

<ul style="list-style-type: none"> <li>• Semiconductors</li> <li>• Frequency &amp; timing</li> <li>• Power management</li> <li>• Circuit protection &amp; discretes</li> <li>• Magnetics</li> <li>• Passives &amp; electromechanical</li> <li>• Connectors &amp; cable assemblies</li> <li>• Photonics</li> </ul>	<ul style="list-style-type: none"> <li>• Wireless modules</li> <li>• Antenna's</li> <li>• Sensors</li> </ul>
<ul style="list-style-type: none"> <li>• Routers &amp; gateways</li> <li>• Wireless embedded computers</li> <li>• Industrial ethernet and IP variations</li> <li>• Wired &amp; wireless machine networking</li> <li>• Antenna's</li> <li>• Device to cloud solutions</li> <li>• Connectivity &amp; remote management services</li> <li>• Networking &amp; connectivity</li> </ul>	<ul style="list-style-type: none"> <li>• Displays</li> <li>• Touch screens</li> <li>• Optical bonding</li> <li>• Total display solutions</li> </ul>
<ul style="list-style-type: none"> <li>• LED light sources</li> <li>• Optics</li> <li>• Thermal management</li> <li>• Power &amp; intelligent controls</li> <li>• LED modules</li> </ul>	<ul style="list-style-type: none"> <li>• AC/DC power supplies</li> <li>• DC/DC converters</li> <li>• Power management modules</li> <li>• Wireless charging</li> <li>• E-mobility solutions</li> <li>• Transformers &amp; power inductors</li> <li>• UPS</li> <li>• EMC filters</li> </ul>
<ul style="list-style-type: none"> <li>• Tablets</li> <li>• PDA's</li> <li>• Vehicle mount computers</li> <li>• Accessories</li> </ul>	<ul style="list-style-type: none"> <li>• Computer-on-modules</li> <li>• Embedded boards</li> <li>• Industrial PC &amp; automation</li> <li>• System integration</li> </ul>

*Bridging the gap between technology, people and business with a human interface.*





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## Get to know us

ALCOM PROVIDES THE WORLD'S MOST ADVANCED TECHNOLOGIES.

With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.

