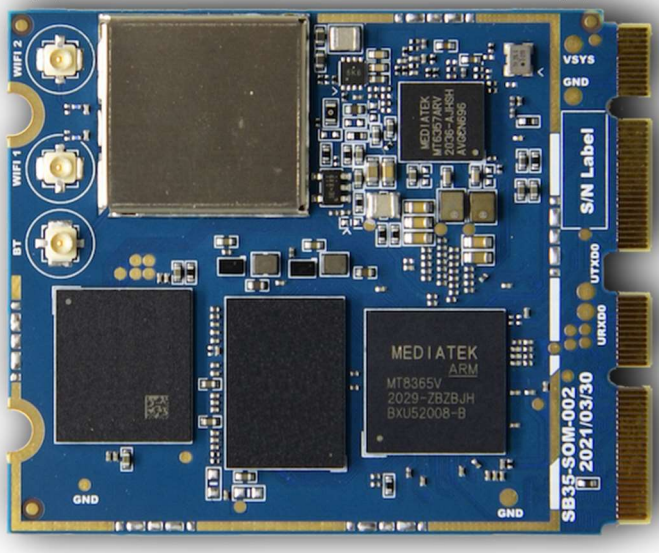
SB35 SoM

Edge AIoT module with integrated AI processor for greater performance development

InnoComm SB35 System-on-Module is a highly integrated Edge AI platform powered by MediaTek i350 Quad-core ARM® Cortex A53 processor. This module support high definition displays and rich applications such as smart appliances, commercial terminals or hubs



Value Proposition

- Greater performance and power efficiency in vision and voice edge AI
- Excellent performance and more feature set of CPU and GPU - AI and embedded voice DSP
- Perfect match performance for mainstream AIoT applications
- Easy assembly onto mainboard by M.2 edge connectors
- Longevity support

Key Features

- Cortex A53 x4 @2GHz MPU / Mali-G52@ 800MHz GPU / Tensilica VP6x1 APU
- Integrated ISP support camera 13MP, H.264 1080P @60fps Encode/Decode
- LPDDR4x 2GB up to 4GB, eMMC 5.1 32GB
- WiFi a/b/g/n/ac MIMO / BT5.1
- Display I/F : MIPI DSI up to 1920x1200
- USB 2.0 OTG x 1 + Host x 1
- 10/100 Ethernet MAC
- Android OS support

Potential Applications

- Fitness Console
- Kiosk
- Digital Signage
- Human Machine Interface
- Audio/Video

innocomm
InnoComm Mobile Technology Corp.

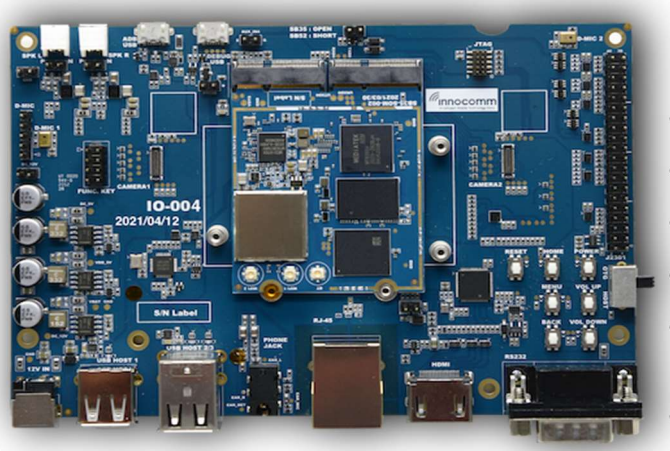
Contact information
Please email to innocomm@innocomm.com or call +886-3-5781868 for more information.

InnoComm Mobile Technology Corporation
3F, No.6, HsinAnn Rd, Hsinchu Science Park, Hsinchu 30078, Taiwan
Phone: +886-3-5781868

SB35 EVK

AIoT Evaluation Kit for InnoComm SB35 SoM powered by MediaTek i350

By way of excellent performance and more feature set of CPU and GPU, SB35 Evaluation Kit is aimed for developer to design mainstream AIoT applications that require greater performance and power efficiency. Powered by MediaTek i350 Quad-core AI processor, this Evaluation Kit enhance developer design remarkable applications such as smart appliances, commercial terminals or hubs in industrial.



SoM Features

- Cortex A53 x4 @2GHz MPU / Mali-G52@ 800MHz GPU / Tensilica VP6x1 APU
- Integrated ISP support camera 13MP, 1080p @60p video decode, 1080p @60p video encode
- LPDDR4x 2GB up to 4GB, eMMC 5.1 32GB
- WiFi a/b/g/n/ac MIMO / BT5.1
- Display I/F : MIPI DSI up to 1920x1200
- USB 2.0 OTG x 1 + Host x 1

Carrier Board Features

- 3x USB 2.0 Host type A connector
- RS232 full function, D-sub 9pin connector
- 10 / 100Mbps Ethernet
- HDMI, type A connector
- Support 2 lanes MIPI DSI connector, RPi 7" LCM compatible
- Support touch interface I2C
- 4.3W speaker amplifier
- 2x Digital MIC
- Support 3.5mm Headphone I/O (R, L, MIC, Detect)
- 2x MIPI CSI, 4 lanes
- Power, Vol. Up, Vol. Down, Home and Reset keys
- Expansion connector support I2C, SPI, UART, GPIO, GND
- 12V DC jack

Contact information

Please email to innocomm@innocomm.com
or call +886-3-5781868 for more information.

innocomm
InnoComm Mobile Technology Corp.

InnoComm Mobile Technology Corporation
3F, No.6, HsinAnn Rd, Hsinchu Science Park, Hsinchu 30078, Taiwan
Phone: +886-3-5781868
Email: innocomm@innocomm.com

Federal Communication Commission Interference Statement

15.19

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

15.21

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible

FCC RF Radiation Exposure Statement:

This device is intended only for OEM integrators under the following conditions：

The module can be used to installation in other host. The antenna(s) used for this transmitter must be installed to the provided separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. The module shall be only used with the integral antenna(s) that has been originally tested and certified with this module.

As long as 3 conditions above are met, further transmitter test will not be required.

However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirement with this module installed (for example, digital device emission, PC peripheral requirements, etc.)

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

USERS MANUAL OF THE END PRODUCT:

In the users manual of the end product, the end user has to be informed to keep at least 20cm separation with the antenna while this end product is installed and operated. The end user has to be informed that the FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied. The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

If the size of the end product is smaller than 8x10cm, then additional FCC part 15.19 statement is required to be available in the users manual:

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following " Contains TX FCC ID: YAISB35 ". If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Antennas

The following antennas have been certified for use with this module; antennas of the same type with equal or lower gain may also be used with this module. The antenna must be installed such that 20 cm can be maintained between the antenna and users.

Antenna Type & Antenna Connector:

Antenna No.	Transmitter Circuit	Antenna Type	Max.Gain (dBi)
1	Chain (0)+(1)	Dipole	2.4GHz: 5 5GHz: 5
2	Chain (0)+(1)	PCB	2.4GHz: 3.78 5GHz: 4.76