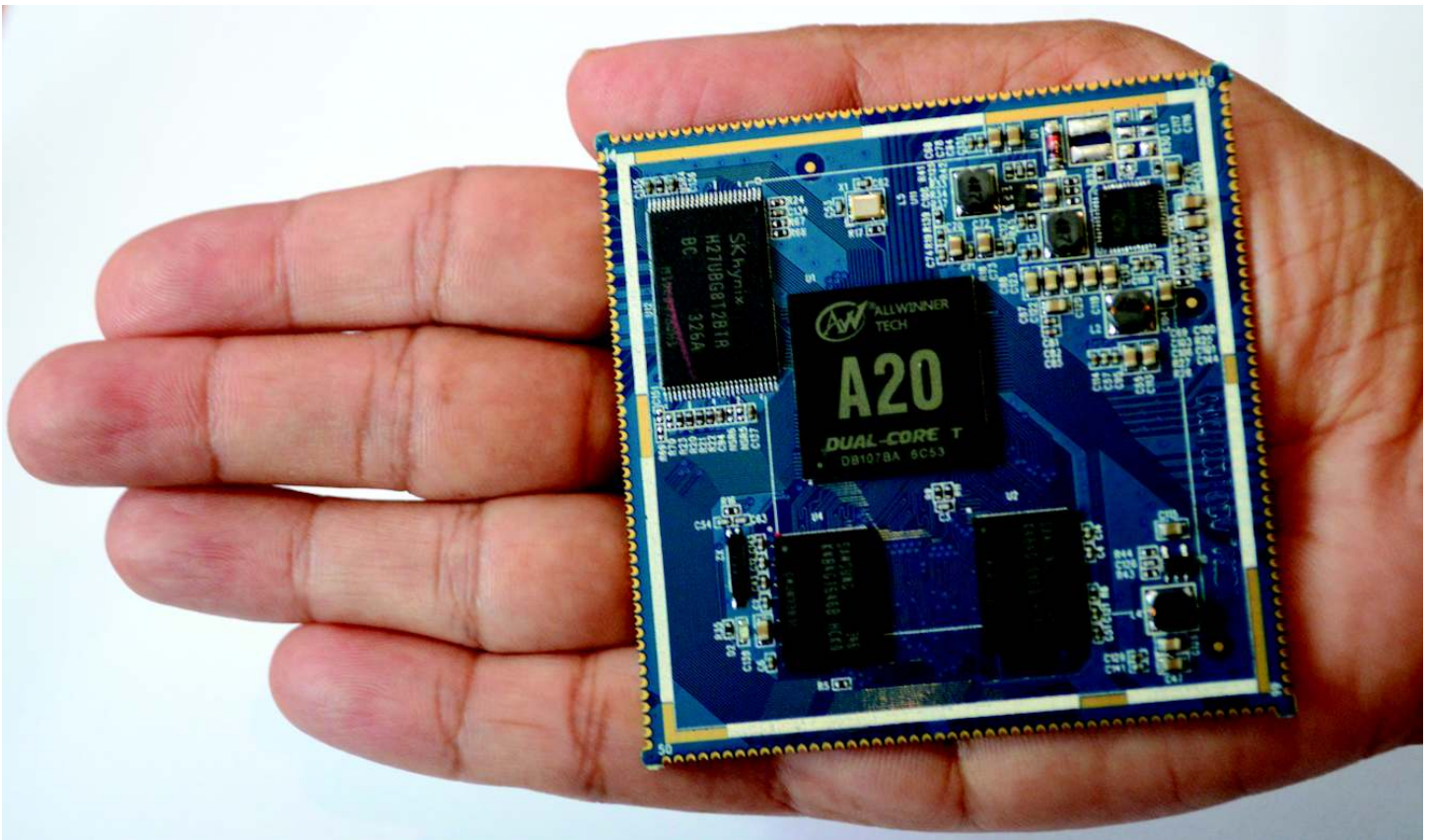


# ThingsIoT

Connections and Convergence

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Solutions for connecting things over  
Internet



## ThingsIoT module based on Allwinner Technology A20 Chip is a all in one multipurpose kit

**IoT is going to impact every aspect of our life.**

We are going to witness all objects around us being connected and accessed via Internet.

Interactions between human and things around are being made easier as everything around us a getting and identity and connectivity for better life, easier access and productivity.

IoT not only connects people to machines but also connects machine to machine.

IoT market is estimated to be around US\$ 300 billion by 2017.

IoT is relevant to unlimited applications in all areas of people, technology and life

Clearly, Internet is in the verge of unprecedented growth and transformation making our lives more comfortable and bringin in limitless opportunities to businesses around.

ThingsIoT module brings in unlimited opportunities for design houses, developers and business to quickly design, develop and market their IoT products.

The module is designed as per industry standards using best components and is very cost effective.

You can rely on quality to ensure delivery of world class IoT product to your customer.

You can choose any open source OS of your choice and develop applications on top of it.

ThingsIoT module can be boxed in different shapes and sizes of your design, which fits your convenience and brand.

The product is available as modules and ThingsIoT can provide additional customized services based on your request.

**Limitless opportunities**



OFC    USB OTGx1    USB x2    Ethernet TCP/IP    RS232Cx2    RS485x1    PLCC  
 Audio  
 HDMI  
 TF Card 32GB  
 SATA

Inbuilt 4/8GB Flash  
 1GB DDR  
 Processor  
 Power management

3G/4G  
 Wifi  
 Bluetooth 4.0  
 ZigBee  
 IR

RoHS COMPLIANT

## Support matrix and details

Name	Description
CPU	Cortex-A7 Mali400MP2 GPU
PMU	X-Power AXP209“flash charging core”, 1.8A PWM charging switch smart power management specialist accessible to 12V power adapter, battery, USB5V power input, providing 7 line power output
DRAM	2*4G 16bits DDR3, forming 32 bit of 1024M Bytes DRAM
NAND Flash	Hynix H27UBG8T2A,4G Bytes MLC 64bit ECC NAND Flash, It can act as system's boot device
TF Card	Support up to 32G card memory, support card test
WIFI	Wifi BT two-in-one module
Ethernet	10M/100M/1000M IEEE802.3
USBHost / USBOTG	1*USB OTG 2.0, 2*USB Host
Headphone/Line-in	Support stereo headphone output/line in
CVBS/ YPbPr	CVBS output/YPbPr Input
VGA	Provide VGA output pin interface
HDMI Output	HDMI v1.4, support 1080P@50/60fps at the most
LCD/LVDS	Provide interface as LCD screen to extend Development, support every size of screen: CPU screen below 3 Inch, RGB screen above 3 inch, LVDS screen above 8 inch
TP	Support quad-line resistive touch screen and capacitive touch screen with TWI interface
UART	Provide UART interface, TTL level
SATA	Support 1* SATA, SATA POWER 5V output
Keys	RESET, POWER_ON etc.
IR	IR only supports infrared remote control
DC	5V DC IN

## Applications

While there is wide variety of applications, sample applications below provides you the length and breadth ThingsIoT supports

### Personal Application

- IPTV
- Home Automation
- Home Security
- Telemedicine
- Smart power management for homes
- Tracking system
- Online Gaming

### Enterprise Application

- Micro Cloud Infrastructure
- Hadoop cluster infrastructure
- Industrial Automation
- Smart power management for enterprise
- Minicomp / Tablets

