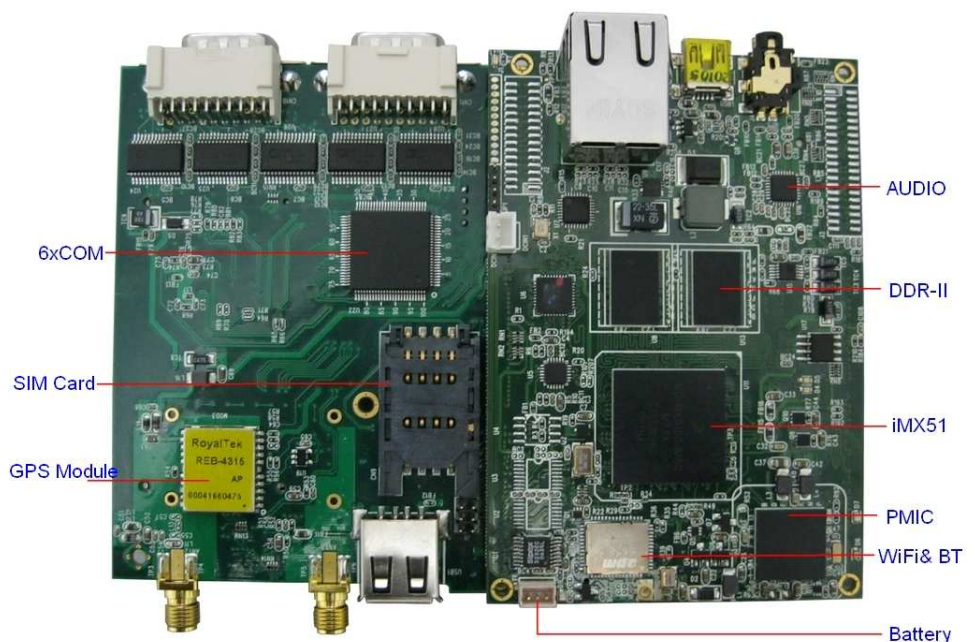


# N51AD

## Strong ARM Cortex-A8 Platform

- Excellent ARM Cortex A8 Multi-Media Platform
- Multiple IO Ports, Easy Extended for various application
- Many Powerful COM ports
- Compact Size for Multiple Application
- Build in Wireless, WCDMA, GSM, GPS. 3G Module by miniPCI2 Connector
- Excellent Performance on Multi-Media Application
- Low Power Consumption and Power Management
- Easy Software Development
- SDK / API / Lib Provided



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# Specifications

- Freescale iMX51 Cortex A8 800MHz CPU
- Build In Cache: 32KB I-Cache and 32KB D-Cache (L1), 256KB cache (L2)
- DRAM: DDR-II 256MB SDRAM on board
- NAND Flash: 512MB up to 2GB Flash
- Auto Power Management for power saving
- TV out: Support composite Video out and Y/C S-Video out
- LCD: 24 bit TFT LCD, LVDS is default
- Touch Panel: 4 way touch control
- Ethernet : 100/10M Ethernet, Support RJ45 connector (UPT)
- USB OTG and 4 x USB 2.0 Host Port
- SD: SD Card socket on board
- I2C : I2C Port
- Keypad: 6x4 matrix keyboard
- CAN: CAN bus on board
- GPIO: 32 bit 3V3 GPIO, 5V tolerance
- ADC port: 8 Ch 12-bit Analog to Digital Converter
- Camera Port: 2 Ch, up to 8Mpixel @ 15fps, up to 133Mpixel/sec
- WiFi 802.11 b/g/n
- 5xCOM Port, 5Vdc Power provided; RS232/RS422/RS485 Optional
- 2xCOM Ports, one of them for console/debug port
- 512KB Power Backup SRAM
- 8xCH Analog Digital Converter
- 4xCH Video Input
- 4xCH Audio Input
- 2xCH Audio output with 3W Amplifier
- 4G GPS Module with high-precision
- 3G WCDMA Module by miniPCI2 bus or GSM/GPRS Module Optional
- One SIM Card socket
- 3 Axis Accelerator Sensor
- 3 Axis Gyroscope Motion Sensor
- Solid Metal Casing available
- Power Requirement: 6V ~ 35V power or Li-Battery Supply (only for CPU Board)
- Battery Charger : Build In
- Operating Temperature: -20°C to 70°C (-4°F~ 158°F)

