

iBoard is a FULL Linux® embedded core module in the very tiny size (55x65 mm.) Its high performance (100 MIPS) with low power consumption (1.5 watts) and flexible module designed can be integrated into the wide range of application. We provide one build-in Ethernet combined with Linux® stable TCP/IP networking that ideally suited for Internet enabled solutions. Also, one or two build-in USB host port provided for wide variety of peripheral devices e.g. Camera, Hard disk, USB Flash drive, USB to Ethernet adaptor, USB to Serial adaptor, Bluetooth, Wireless LAN. Legacy Asynchronous RS232, RS422, RS485 device also supported as well e.g. Barcode scanner, Modem, LED Message board, RFID Reader, Industrial sensor with MODBUS. Additional 48 GPIO can be used for Relay, Door lock, Door gate, Sensor, Siren, I2C.

Hardware Feature

- ▶ Microprocessor ETRAX 100LX RISC Architecture 100 MIPS 32-bit
- ▶ 8 MB Flash up to 32 MB
- ▶ 32 MB SDRAM up to 64 MB
- ▶ 1 x Ethernet 10/100 on board RJ45 header
- ▶ 2 x USB port (one onboard USB type A header and transceiver chip)
- ▶ 2 x 20 pin header for 48 DIO, 4 Serial UARTs and/or Parallel port
- ▶ Extreme Low Power 300mA @ 5V

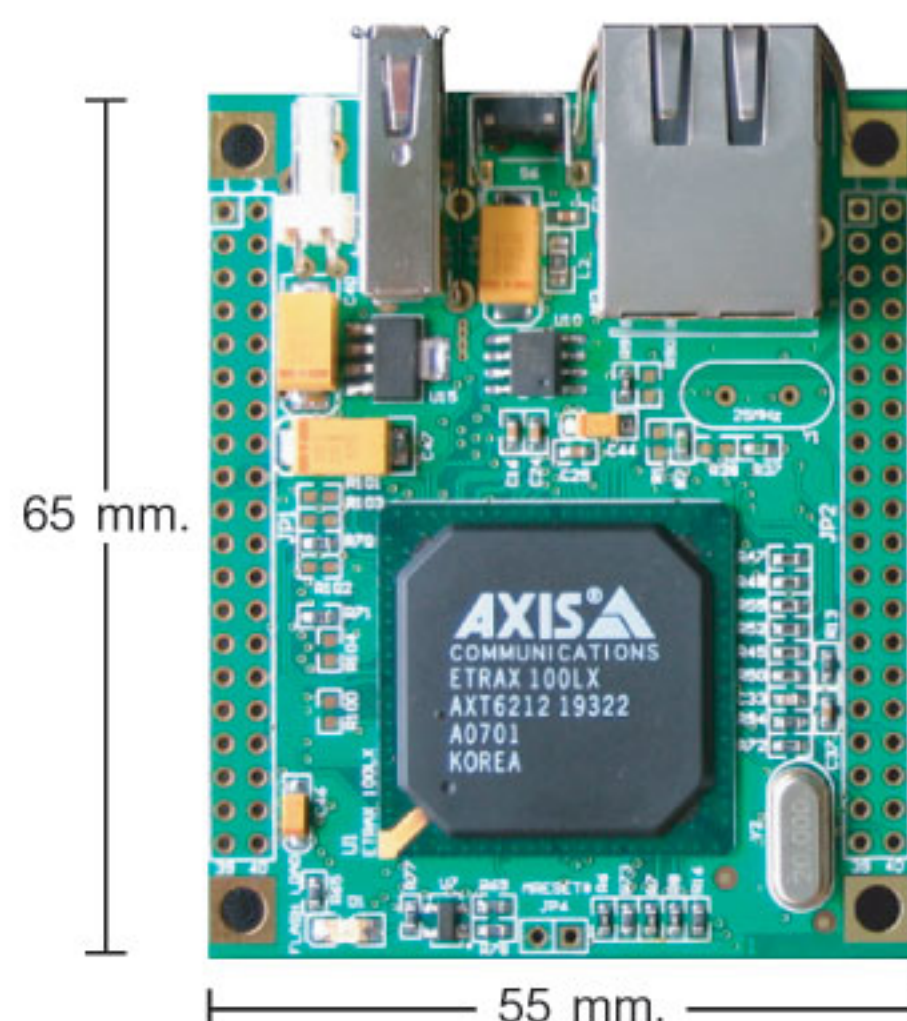
Based on FULL Linux and Open Source Software, developers will have a strong international community for sharing your design possibility and iBoard designer will give you the advice for your success project based on iBoard.

Software Features

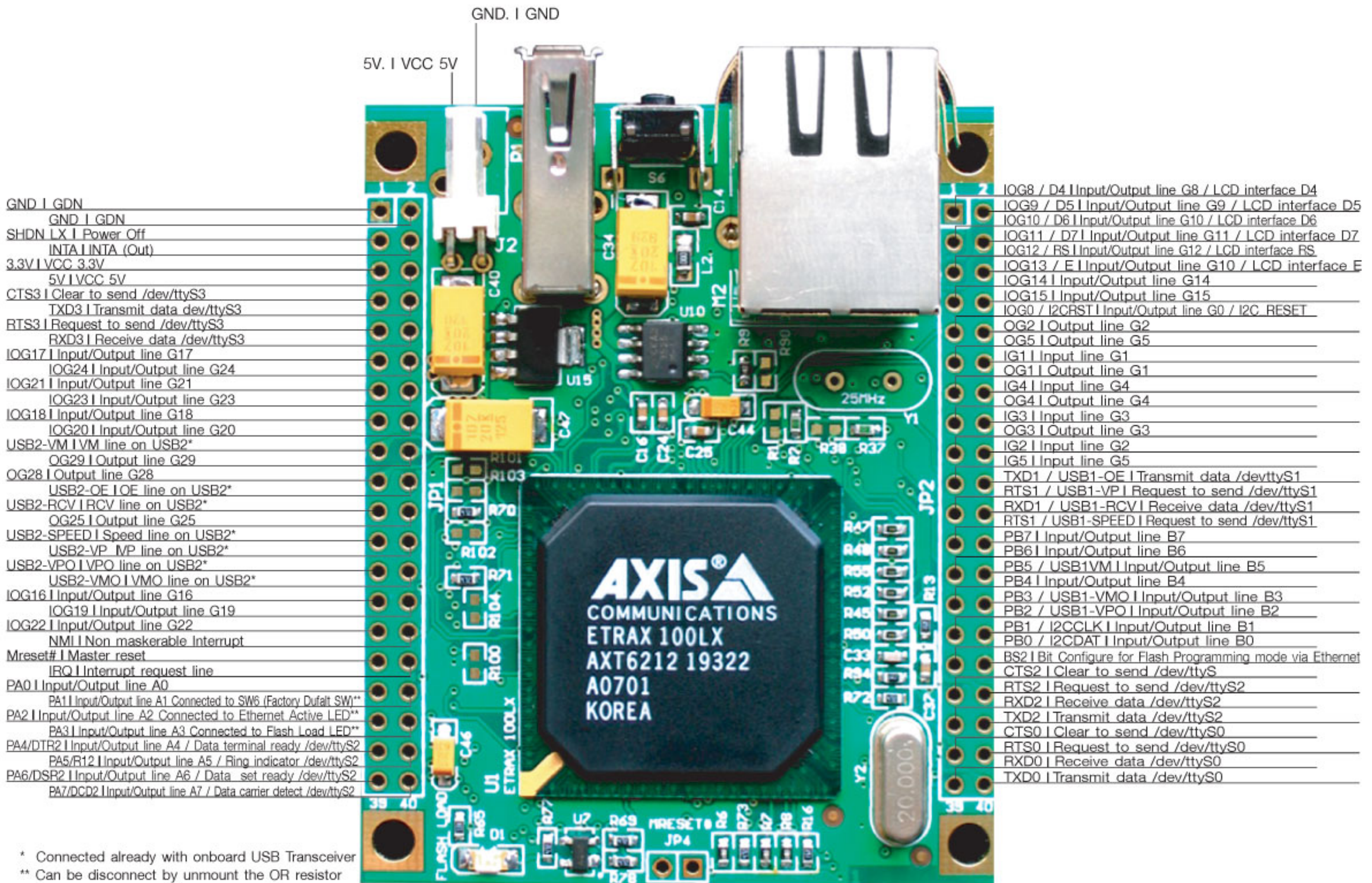
- ▶ Fast startup < 5 sec boot
- ▶ Build in Web server
- ▶ Real Linux Operating System Kernel 2.4.x or 2.6.x
- ▶ Full suit of TCP/IP ipv4, ipv6
 - PPP for asynchronous modem (GPRS/EDGE, Analog, ISDN)
 - PPPoE for ADSL , IPSec, VPN
 - FTP, TFTP, SNMP
- ▶ Firmware Upgradeable though FTP, SSH and Telnet with Lan Interface
- ▶ Development Kit installed under GNU License



iBoard Dimension

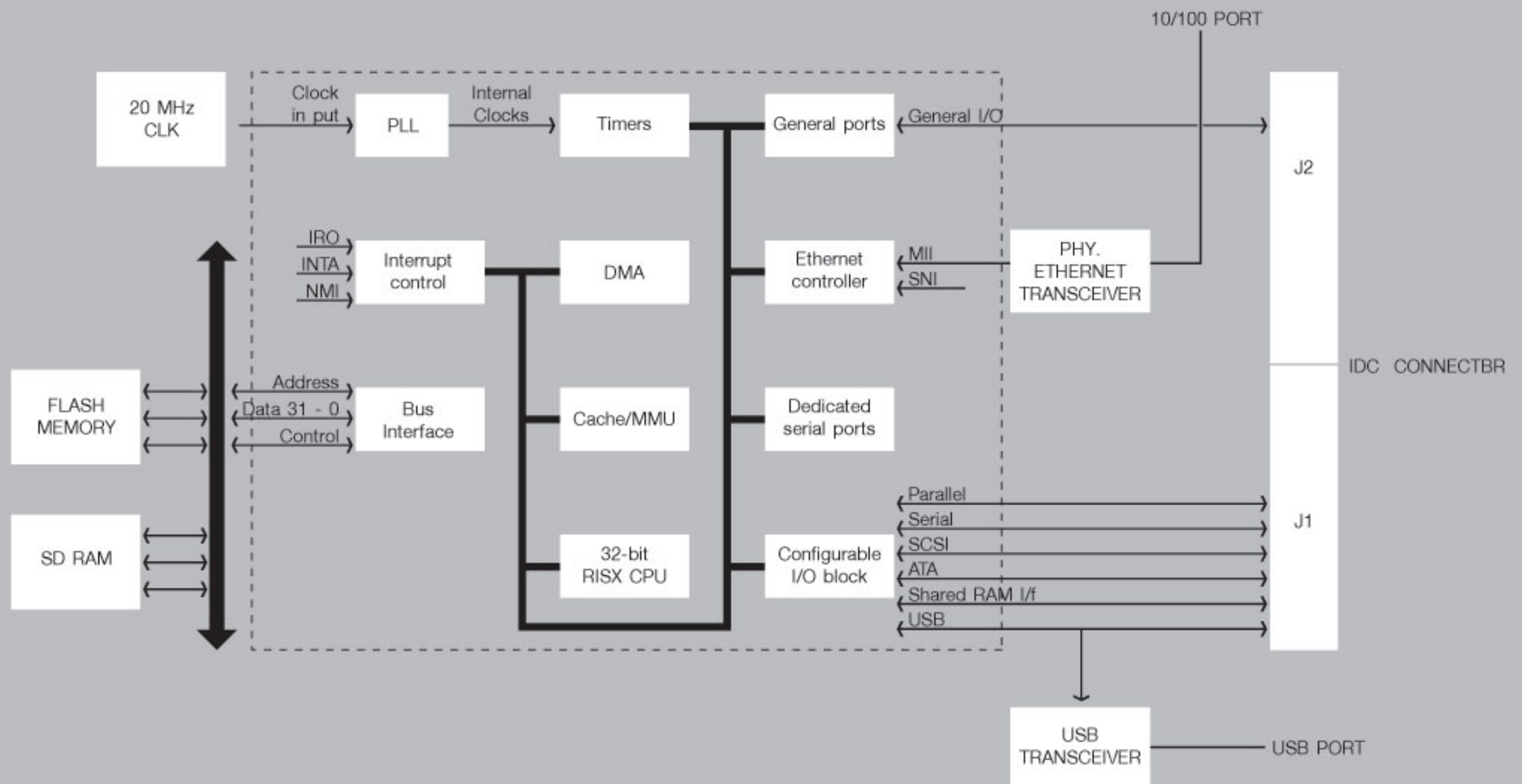


iBoard Pin Out



★ All MUX port can be change to another functions by reconfigure the Linux Kernel ★

iBoard Block Diagram



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