STR-E912 is low cost development board for the new STR912 ARM966E-S microcontroller from ST Microelectronics. With 512KB internal flash, 96KB internal RAM, USB, CAN, RS232, 10/100 Ethernet, SD/MMC card connector, Audio In/Out, TFT color LCD, joystick for menu navigation, connectors for the external memory bus, JTAG, TRACE this board allows all STR912 features to be explored. The demo codes show how easy can be build USB mouse, USB HID Audio device, open source web server, LCD interface.

The module features are:

- **STR912FW44X** ARM966E-S microcontroller 512KB internal Flash, 96 KN internal RAM
- TFT LCD 128x128 12 bit color with backlight
- Joystick for menu navigation
- 100 Mbit Ethernet MAC + PHY + RJ45 connector with two status LEDs
- USB 2.0 Fast 12Mbit device
- CAN 2.0
- RS232
- IrDA transciever
- Audio Input
- Audio Output, on-board speaker and volume control
- External memory bus connector
- Analog connector
- UEXT Olimex's standard connector with I2C, RS232, SPI and power supply
- JTAG connector
- optional TRACE connector
- battery holder for 3V li-ion RTC backup battery
- PCB: FR-4, 1.5 mm (0,062"), red soldermask, white silkscreen component print
- Dimensions: 145x130 mm (2.075x1.15")

The available demo software for this board is:

1. USB mouse demo code emulates mouse connected to PC with the joystick
2. USB HID Audio device – allow sounds to be captured through STR912 ADC and to be played by the PWM
3. LCD drive code with basic IO functions
4. uIP web server with the build in STR912 Ethernet MAC
5. RS232 drive code
6. IrDA drive code

POWER SUPPLIES

COPYRIGHT (C) 2006, OLIMEX LTD.
HTTP://WWW.OLIMEX.COM/DEV