

## **FIR Adapter**

### **Operation Principle**

The FIR Adapter is mainly composed by:

- USB IR modulation chip and FIR Tx/Rx module
- LED indicator
- 12MHz crystal
- USB Male Connector
- Support IrDA data rates from 2.4Kbps up to 4Mbps

This module includes a FIR transceiver.

The MCS7780 is a single-chip, USB 1.1 controller embedded IR modulator. It is powered by the 5.0V from USB Bus power. The 12MHz crystal provides the clock to MCS7780.

When the Adapter works, it receives data/command from USB and transmits them to other IrDA device by the IR transceiver module. The LED indicator will blink when there is any data/command sent or received by MCS7780.