BAFO CONNECTIVITY SOLUTIONS

Interface Connectors to Connectivity®
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BF-812
USB - SERIAL ADAPTER (DB9)

The **BF-812 USB –Serial Adapter** operates as a bridge between one USB port and one standard RS232 Serial port.

Features

- Full compliance with the USB Specification V1.1
- Support the RS232 Serial interface
- Support automatic handshake mode
- 230Kbps transfer rate
- Supports remote wake-up and power management
- Dual data buffers for upstream and downstream data flow
- Supports default ROM or external EEPROM for device configuration
- One chip USB transceiver
- Maximum power consumption 200mW

Electrical Characteristics

Serial Interface

Pin #	Symbol	I / O	Description
1	TXD	O	Data Output to Serial Port
2	DTR_N	O	Data Terminal Ready (active low)
3	RTS_N	O	Request to Send (active low)
4	VDD_232	P	RS-232 VDD
5	RXD	I	Data input from Serial Bus
6	RI-N	I	Ring indicator (active low)
7	GND	P	Ground
8	VDD	P	Power
9	DSR-N	I	Data Set Ready (active low)
10	DCD_N	I	Data Carrier Detect (active low)
11	CTS-N	I	Clear to Send (active low)
12	SHTD_N	O	Shut Down RS232 Transceiver
13	EE-CLK	I / O	During reset, this pin is input for simultaneous purpose. During normal, this pin is Serial ROM Clock
14	EE-DATA	I / O	Serial ROM data signal
22	TRI_MODE	I	RS-232 tri-state output control during Suspend

USB interface

15	DP	I / O	USB DPLUS signal
16	DM	I / O	USB DMINUS signal

I : input • O : output • I/O: Bi-direction signal • P: Power/Ground

Product Specification

USB I/F
- Full-Speed USB Device
- USB bulk-type data for maximum data transfer
- Supports USB power management and remote wake up scheme
- Support USB Suspend/Resume detection logic
- Support 4 endpoints: 1 control endpoint with maximum 8-byte packet, 1 bulk IN endpoint with maximum 64-byte packet, 1 bulk out endpoint with maximum 64-byte packet and 1 interrupt IN endpoint with maximum 8-byte packet.

RS232 Interface
- Support programmable baud rate generator.
- Supports data format: data bits5, 6, 7, 8 or 16.
- Parity type None, Odd, Even, Mark, Space Stop bits 1, 1.5, 2.
- Supports Baud Rate: 75, 150, 300, 600, 1200, 1800, 2400, 3600, 4800, 7200, 9600, 14400, 19200, 28800, 38400, 57600, 115200, 230400.

EEPROM I/F
- Provides serial interface for read/write EEPROM
- Check first two bytes of EEPROM and decide to use chip's default parameter or EEPROM parameter
- Device Configuration Register is used to control some vendor-specific functions

Operating System
- Windows- 98 SE/ME/2000/ XP/ Vista/ 7/ 8.1/10
- Mac OS 8.6 or higher

Operating Environment

- Operating Temperature : 0 – 70 ℃
- Storage Temperature : -55 – 150 ℃
- Humidity : 8% - 80 %
- Altitude : 0 –7000 Feet

Compliance

FCC/CE/VCCI/BSMI