BF-440 4 Ports Serial to TCP/IP Converter
BF-480 8 Ports Serial to TCP/IP Converter

BF-440/BF-480 serial device servers are designed to make your industrial serial devices Internet ready instantly. The compact Dimension of BF-440/BF-480 device servers makes them the ideal choice for connecting your RS-232 or RS-422/485 serial devices such as PLCs, meters, and sensors to an IP-based Ethernet LAN, making it possible for your software to access serial devices anywhere over a local LAN or the Internet.

BF-440/BF-480 serial device servers ensure the compatibility of network software that uses a standard network API (Winsock or BSD Sockets) by providing TCP Server Mode, TCP Client Mode, and UDP Mode. And using Chiyu's virtual COM drivers, software that works with COM ports can be set up to work over a TCP/IP network in no time. This excellent feature preserves your software investment and lets you enjoy the benefits of networking your serial devices instantly.

BF-440v serial device servers support automatic IP configuration protocols (DHCP, BOOTP) and manual configuration via Chiyu's web browser console. Both methods ensure quick and effective installation. BF-440/BF-480 support special design for PPPoE + DDNS that could let your device to connect to Internet without static IP address.

Applications
 • PLC Instrument Control
 • Factory Automation
 • Hospital Automation
 • Time Recording System
 • Building Automation
 • Access Control & Security

Features
 • DHCP Client
 • PPPoE Over Ethernet
 • Firmware Upgrade
 • Auto-negotiating 10/ 100M bps Ethernet
 • Dynamic DNS
 • TCP/UDP server/client support
 • Backup and Restore configuration
 • Full Network Management via Web

Specifications
 • Hardware
   › CPU: 16 bit CPU, 100M Hz

- › Memory: 256 KB ROM & 768KB SDRAM
- › Watch Dog: Support watch Dog, system never halt
- › Reset Button: Multi-function for system restart and factory default reset
- Interface
  - › Ethernet
    1 RJ-45 Port: 10/100Base-T,half/full duplex, Auto Cross Over, 1.5 KV Magnetic protected
  - › Serial (BF-440: 1-4; BF-480: 1-8)

Port	Interface	Port Type	signals	protection
COM1	RS-232	Screw Terminal	TxD,RxD,RTC,CTS,DTR,DSR,DCD,GND	15KV ESD
COM2	RS-232/485	Screw Terminal	TxD,RxD,GND(RS-232) D+, D-(RS-485)	15KV ESD
COM3	RS-232/485/422	Screw Terminal	TxD,RxD,GND(RS-232) D+, D-(RS-485) T+, T-, R+, R-(RS-422)	15KV ESD
COM4	RS-232	Screw Terminal	TxD, RxD, GND	15KV ESD
COM5	RS-232	Screw Terminal	TxD, RxD, GND	15KV ESD
COM6	RS-232	Screw Terminal	TxD, RxD, GND	15KV ESD
COM7	RS-232	Screw Terminal	TxD, RxD, GND	15KV ESD
COM8	RS-232	Screw Terminal	TxD, RxD, GND	15KV ESD

- › Baud rate: 1200 bps ~230.4Kbps
- Configuration
  - › Ethernet: Static IP/DHCP Client/PPPoE
  - › Serial
    Parity Check: None, even, odd, Mark , Space
    Data bits: 5, 6, 7, 8
    Stop bits: 1, 2
    Flow Control: RTS/CTS, XON/XOFF
- Supported OS
  Windows XP, Windows 2000, Windows NT, Windows95/98 ME, Linux, UNIX
- Protocol
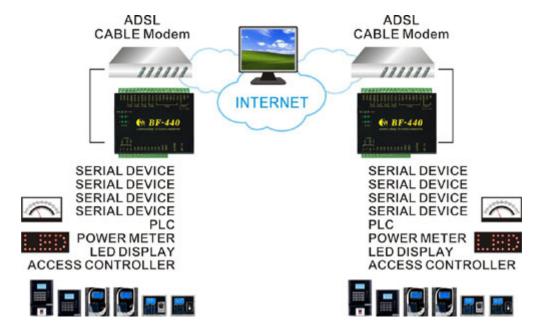 TCP, IP, UDP, Telnet, ARP, DHCP, ICMP · SMTP · PPPoE · HTTP · DDNS
- Management
  - › Support TCP/UDP Server/Client mode.
  - › User name & password protected for web management
  - › Built-in Http server for set up and remote management via any browser easily
  - › Support backup & restore system configuration data
  - › Support Windows 95/98/ME/NT/2000/XP/2003 virtual COM drivers
- Power & Environment
  - › Power requirement: DC 9-30V , 500m A
  - › Operation Temperature: 0 ~ 65°

› Operation Humidity: 5 ~ 95%RH
› Storage Temperature: -20 ~ 85°
› Magnetic Protected: Ethernet port 1.5 KV
   Dimension: 127 x 37 x 110 mm

Configurations:

Accessories
• Power adaptor