

Serial to Ethernet Converter - Advanced

Part no.: BF430



This serial RS232 to Ethernet converter is similar to our XS1000 serial to Ethernet converter, the main difference between the two is that this converter has a faster and better processor and also has more advanced features than the XS1000. This makes this serial RS232 to Ethernet converter ideal for more complex setups and configurations. You can for example use this converter in 'Tunneling mode over LAN' where you communicate between two serial devices over a Ethernet network via two serial RS232 Ethernet converters without using a computer.

Just like our other RS232 to Ethernet converters this converter will allow you to communicate with a remote RS232 or RS485 serial device over an Ethernet network. Once the included virtual COM software has been installed a virtual COM port will show up in your operating system's Device Manager. This virtual COM port can be accessed via your application software and used almost as if it was a standard built-in local COM port. The port has many settings which can be adjusted such as baud rate, parity rate, stop bits, Real COM mode, forced packed time and length, flow control and many more parameters are available.

Even this serial RS232 Ethernet converter has many advanced settings and parameters it is still easy to setup and very user friendly.

- One RS232 port and one RS485 port
- Many advanced features and functions
- Parameter configuration via web browser
- Virtual COM port software included
- Electrostatic protection
- DHCP support

In many cases you will not even need to adjust the settings, unless your serial device needs specific settings the default parameters will work right out of the box. The parameters can be configured through any web browser or the included virtual COM driver software.

The converter has one RS232 port with a standard DB9 connector and one RS485 port with a detachable screw terminal header for easy connection of individual wires. LED lights for TX/RX helps identifying when data is sent and received.

The converter can be powered by an external 9V power supply through the DC power connector or by applying power to the 9V screw terminals.

The BF430 can be used either in a local Ethernet network but it can also be setup so it can be accessed over the Internet by using a VPN.

It is a very versatile unit which can be used with most standard serial RS232 and RS485 devices and equipment including industrial machinery, CNC machines, printers, control equipment PLC control and most other commercial and laboratory equipment with a standard serial port.

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PRODUCTS

Large selection of Serial RS232, RS485 and RS422 converters, USB to Serial adapters, Isolators, Ethernet to Serial converters, Serial Repeaters, Wireless Serial modules, Serial Bluetooth adapters and Serial Port Cards.

TECHNICAL SUPPORT

To access technical support, please visit www.NordField.com where you will find:

- Latest drivers and updates
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- Documentation
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- and much more...

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SPECIFICATIONS	
Model number	BF430
Operating system	Windows 10 32/64-bit, Windows 8 32/64-bit, Windows 7 32/64-bit, Vista 32/64-bit, Windows XP 32/64-bit, Windows 2003, 2000, 98, Linux
Number of serial ports	One RS232 port, male DB9 One RS485 port with screw terminals
RS232 signals	TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND - Parity Check : None, even, odd, Mark, Space - Data bits : 5, 6, 7, 8 - Stop bits : 1, 2 - Flow Control : RTS/CTS, XON/XOFF
Baud rates	1200 bps to 230.4Kbps
Serial modes	Virtual Com / TCP Server / TCP Client / UDP / Serial Tunnel
RS485 signals	Data + and Data - with Automatic Data Control
ModBus	No
Telnet	Yes (tested with Putty)
Serial tunnel mode	Yes
LAN port	RJ45, 10/100 Base-T
Protocols	TCP Server/Client, IP, UDP Server/Client, DHCP, Telnet, HTTP, ARP, ICMP, PPPoE, DDNS
Parameter configuration	- Web browser - Included software utility
Memory	256 KB ROM and 768KB SDRAM
CPU	RDC R1610-G, 16 bit CPU, 100MHz
Watch Dog support	Yes
Power	9 to 30VDC, 300mA
Serial port protection	15 KV ESD/600W static/surge protection
Ethernet port protection	1.5 KV magnetic protection
Installation	Screw holes
Operating Temp.	-10 to 55C
Operating humidity	5% To 95% - no condensation
Dimensions	67 x 93 x 22 mm
Weight	300g
Warranty	2-year limited warranty
Compliance	CE, RoHS, FCC
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

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Connection table

DB9 Connector configuration		
Pin	Signal	Name
1	CD	Carrier Detect
2	RXD	Receive
3	TXD	Transmit
4	DTR	Data Terminal Ready
5	GND	Ground
6	DSR	Data Set Ready
7	RTS	Request To Send
8	CTS	Clear To Send
9	RI	Ring Indicator

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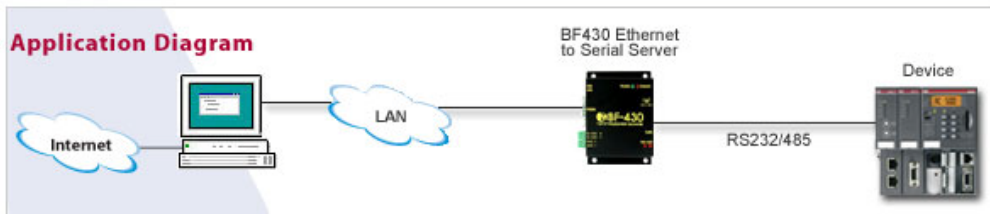
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Connection example



Configuring the unit:

Please download software and user manuals for configuring this unit from:

WWW.NORDFIELD.COM

1. Connect the power supply and Ethernet cable.
2. Assign a static IP address to your computer in the 192.168.168.1 to 192.168.168.124 range. Subnet mask 255.255.255.0.
3. The default IP address of the BF-430 is 192.168.168.125. Open your web browser and enter this IP address to connect to the BF-430.
4. Default user name and password is 'admin'.
5. Use VCOM.exe to setup a serial port.

Please refer to the setup guide for more details