

# RS485 to Ethernet Converter (BF430)

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*Current manufacturer information: Chiyu model BF-430*

EG4xxx (Pro and Core) are recommended to utilize the [eGauge USB485](#) (serial to USB) adapter instead if possible.

Power can be provided (9-30V) to either terminals or barrel jack plug. eGauge sells a [compatible 12Vdc](#) power supply.

The Chiyu BF-430 is an RS-485/RS-232 to Ethernet converter. It is required for serial communication to third-party devices (for example, Modbus RTU) on older eGauge models without USB ports or to communicate over a network rather than serial line directly to the eGauge.



*BF430 Serial-to-Ethernet Converter*

# Specifications

[Full specs \(Manual PDF\)](#)

## Hardware included:

- BF430 RS485 to Ethernet Converter
- 4-pin power/serial connector

# Assembly/installation information

Do not apply power to both barrel jack and voltage terminals.

Serial settings are configured in software on the BF-430 and must be set correctly through web interface for use.

1. Set the DIP switch in the upper left to 485 (or 232, if using the RS232 terminal connections).
2. Connect the Ethernet (RJ45) to the local network.
3. Connect the 485+ and 485- to the appropriate connections on the remote serial device (or RS232 if used instead).
4. Apply power to the BF-430 using a barrel jack or 9~30V+ and 9~30V- terminals appropriately.

## Software configuration Information

[BF-430 Manual](#)

## Documents

[BF-430 Manual](#)

## Related Information

- [RS485 to USB converter \(USB485\)](#)
- [IMT irradiance and weatherstation wiring information](#)
- [Reading from any remote Modbus device](#)

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Please visit [kb.egauge.net](http://kb.egauge.net) for the most up-to-date documentation.