

# Rugged, Industrial Grade Ethernet Infrastructure for Wind Farms

**Industry: Alternative Energy**

**Product: Compact, Unmanaged Industrial Ethernet Switches**

## • The Challenge

Wind Farms are gaining attention as an energy source that requires no fuel, produces no pollution, and is virtually inexhaustible. Wind turbines are linked together for operation and energy monitoring. This poses a unique set of challenges since a wind farm can span large distances with typical locales posing electrical interference, extreme temperatures, dust, moisture, and vibration.

## • The Solution

It is imperative to utilize rugged networking devices that support long distance, reliable transmission capabilities. Keeping data protected while communicating from the base to the top of each wind turbine, and between turbines, can best be achieved through fiber optic Ethernet connections.

B&B Electronics unmanaged Ethernet switches with 3 fiber ports protect In, Out and Up communications in the wind farm application. Switches convert copper Ethernet to optical fiber for highly reliable, EMI immune data transmission.

## • Why B&B Electronics?

B&B Electronics' unmanaged Ethernet Switches and Media Converters can be ordered with an almost infinite variety of port configurations. There are many in-stock port combinations or configure your own with only a five day lead-time.

## • The Product

**Elinx™ Models EIR203, EIR205 and EIR208 –**

Compact, Unmanaged Industrial Ethernet Switches

- Up to 3 multi or single-mode fiber ports
- ST or SC fiber connectors
- 10/100M, full/half duplex, MDI/MDI-A (auto-negotiate)
- Supports IEEE 802.3, 802.3u, 802.3x standards
- Back-pressure and IEEE 802.3x compliant flow control
- 10 to 50 VDC power input
- Store and forward mechanism
- Broadcast storm filtering
- Supports 2K MAC addresses
- 48 K byte memory buffer
- CE, FCC, UL



Model EIR203 Series

**E-LINX™**  
Industrial Ethernet Switch