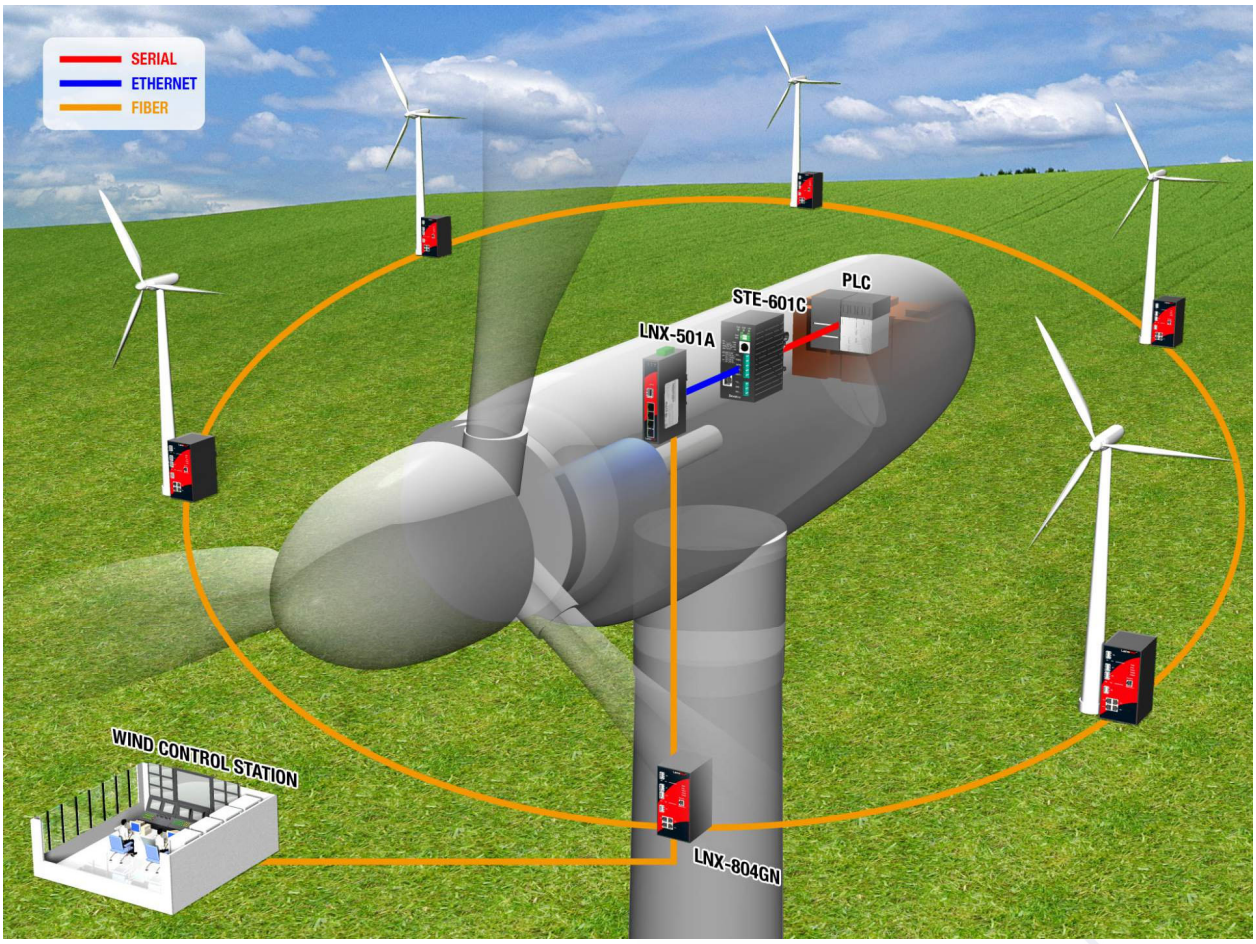
Wind Turbine



Application

In a power generating wind turbine application, it takes more than just wind to push against blades that rotate an electromagnetic generator creating electricity. Turbine blade angles are constantly needing to be adjusted for current wind speeds to obtain optimal power in the given weather conditions. It is a complex operation requiring constant monitoring to keep a wind turbine functioning properly.

Inside the generators, typically located at the top of the wind turbine tower, there is an industrial Ethernet switch connecting all the important sensors collecting turbine data. This data is typically transferred via fiber from one Ethernet switch in the generator to another Ethernet switch at the base of the turbine tower. A wind farm has numerous turbines that link up and communicate via a fiber ring connection through the industrial Ethernet switch in the base of each tower. From each turbine, data is transferred via fiber to a wind control station where data can be monitored and controlled.

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Application Requirements

1. Non-stop and reliable Ethernet infrastructure network with secure data communication and fast fault network recovery capabilities
2. Fiber link connections for longer and noise-immune transmissions
3. Wide operating temperature range and compact design for field site cabinet installation

Solution

1. **STE-601C**
2. **LNX-0501-S3-T**
3. **LMX-0804G-SFP-T**

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