

ANDA POWER CORPORATION

USING MOXA PT-7728-F-HV-HV ON SCADA MMS SERVER

APPLICATION:

SCADA MMS Server

INDUSTRY:

Power Plant

REGION:

Philippines

SYSTEM REQUIREMENTS

- Ethernet switches with IEC 61850 certification for Power Plant environment.
- Industrial Grade and Rugged design to withstand harsh environmental conditions, such as high temperature, and humidity.

WHY MOXA?

- Wide Operating Temperature Range: Industrial environments, including power plants, can experience extreme temperatures. A switch with a wide operating temperature range ensures reliable performance under varying conditions.
- High Voltage Design: The "HV" designation indicates that the switch is designed to operate in high-voltage environments, which is common in power substations.

INTRODUCTION

Anda Power Corporation ("Anda Power") is a competitively-growing multi-billion peso company in the field of power generation. Equipped with high-end facilities, Anda Power vigorously functions to provide a clean, safe, reliable, and affordable coal-generated energy.

Anda Power Corporation is located at 6th Floor Ace Building 101 Rada corner Dela Rosa Street Legaspi Village Makati, Manila, 1229 Philippines. It has an 82-Megawatt Circulating Fluidized Bed Coal-Fired Power Plant located in TECO Industrial Park, Mabalacat City, Pampanga.

MOXA SOLUTION

The Moxa PT-7728-F-HV-HV is an industrial Ethernet switch designed for harsh environments, particularly those in the power utility and substation automation sectors.

The Moxa PT-7728-F-HV-HV is a managed Ethernet switch with a wide operating temperature range, which is crucial for applications in power plants where extreme temperatures may be encountered. The "HV" in the model name suggests that it is designed for high-voltage environments, making it suitable for use in power substations.

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WHY MOXA:

- **Managed Functionality:** Managed switches provide advanced features such as VLAN support, Quality of Service (QoS), and network management capabilities, which can be beneficial in complex industrial networks.
- **Reliability and Redundancy:** Industrial applications often require high reliability. Look for features like redundancy protocols (e.g., Rapid Spanning Tree Protocol, RSTP) to ensure network stability and minimize downtime.
- **Ruggedized Design:** Industrial switches should have a ruggedized design to withstand harsh environmental conditions, including resistance to dust, humidity, and vibrations.

SYSTEM ARCHITECTURE

- **MMS servers** running on **switches** and **IED** provide node status information according to IEC 61850-90-4
- PSCADA systems can **visualize** topology, **inspect** node status and show aggregated transmission traffic statistics.

