A L T E N
CALSOFTLABS
AN ALTEN GROUP COMPANY

PLANT FLOOR INFORMATION SYSTEM (PFIS)

👤 THE CLIENT

The client is a leading OEM.

🤝 BUSINESS NEED

The client envisaged to have a Plant Floor Information System which is an Ethernet gateway to industrial equipments, which receives different parameters/status of machineries and passes all the information to users over 10/100 Ethernet port.

- The main board receives machine parameters from various sensor values through ADC and it can process the data through micro-controller. After processing the data, the MCU sends the desired information to user over 10/100 Ethernet.
- The daughter board receives machine parameters/status information from sensor (analog, digital and pulse) outputs of machines. Then the received signals pass through isolator and level shifters. The outputs of Isolator and level shifters are fed to micro-controller via board to board connector for further processing.
- The Simulator will be used to provide Analog /Digital-Pulse signals to daughter card.

🖥 TECHNOLOGY USED

- Controller board
- Micro-controller

📈 BUSINESS BENEFITS

- Quick and efficient device communication

⚙ SOLUTION DELIVERED

- Built PFIS Main Board bearing features like:
- Ethernet Port (RJ45 modular Jack) for user interface
- Three pin header for CAN interface (Not applicable for user access)
- DB-9 connector for Serial communication (not applicable for user access)
- USB2.0 Mini-AB connector (not applicable for user access)
- 2.1mm connector for power supply input
- Powered by external AC-DC adapter (230Vac to 12Vdc/1A / UL approved)

Built PFIS Daughter Board sporting features like:

- Opto-Isolator/level shifter
- Digital Isolator/level shifter
- Signal conditioning circuit
- DC Power
- Powered by external 24VDC from machine bus-bar

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi- tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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