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Multi-protocol IoT Gateway for Leading Energy Management Solution Provider

BUSINESS REQUIREMENTS

- Multiple wireless protocols on-board
- Wired connectivity, Data logging
- Remote login/ debugging

OUR SOLUTIONS

- Based on ARM processor, runs Linux
- Ethernet and Wi-Fi connectivity, Options for BLE, ZigBee, 3G/4G modem using custom designed add-on-cards
- Supports standard industrial serial protocol to gather data from field

TOOLS /TECHNOLOGIES

- Industrial communication protocol, Internet of Things
- 6 layer Stack-up, On-board PCB antenna, RF communication
- OrCAD Capture, Allegro PCB designer, FCC/CE Certification

BUSINESS IMPACT

- Existence of multiple wireless protocols helps to target several use cases
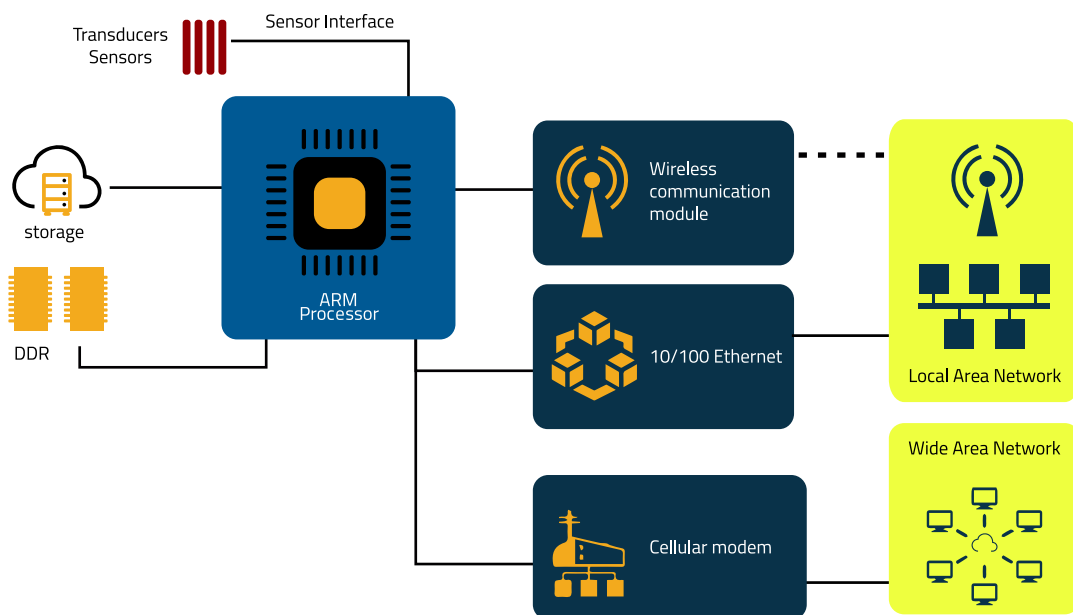- Supports faster and hassle free over-the-air software updates and remote debugging
- Proven industrial communication protocol ensures data reliability over long distances

SOLUTION OVERVIEW

Transducers Sensors — Sensor Interface

storage

DDR

ARM Processor

Wireless communication module

10/100 Ethernet

Cellular modem

Local Area Network

Wide Area Network

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