Product ODM and OEM Solutions

Partner with and proudly represent:
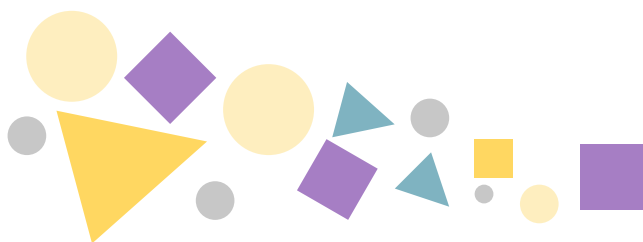
BM BFHY Electric

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☐ ABOUT US

At Infinode, we specialize in providing innovative, reliable, and tailored Original Design Manufacturing (ODM) and Original Equipment Manufacturing (OEM) solutions for the industrial and energy engineering sectors.

With a commitment to quality, efficiency, and customer satisfaction, we strive to be your trusted partner in bringing your ideas to life and delivering exceptional products to the market.

We at Infinode provide our Asia-pacific clients with local market-oriented product design and product prototyping services. When the product is ready for the market at a certain scale, we proudly partner with and represent BFHY Electric Ltd to fulfil our customers' need of mass manufacturing, tech support and ODM/OEM services.

BFHY Electric is a renowned ISO-9001 certified ODM/OEM solution manufacturer, know more about BFHY Electric at **bfhy-electric.com**.

- Our Turnkey Solutions

We know that turning an idea into a mass-production product is challenging, with our turn-key solutions, our clients only need to work and communicate with Infinode, and focus on the marketing and their customers, while we are responsible for both the work we conduct, and the work conducted by the companies we represent.

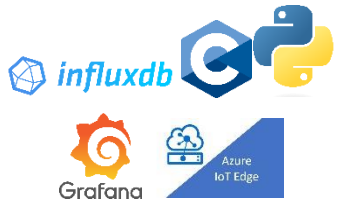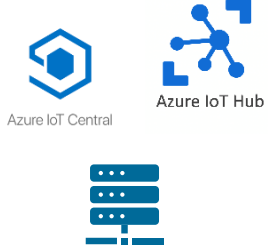| ODM Solutions					
		OEM solutions			
ODM based on our existing hardware					
Request and Scope Analysis	Design and Prototyping	Pilot Production		Mass Production	On-going Support, Product Upgrading
infinode. + BFHY Electric		infinode. represents BFHY Electric			infinode.

- About BFHY Electric

    o Founded in 2004, ISO9001 certified
    o 50+ head counts of R&D and management team
    o 5+ key serviced markets (power distribution, hybrid energy, industrial IoT, fire safety, controllers)
    o Whole stack industrial manufacturing lines (SMT + Manufacturing/assembling + Testing lines)
    o 2015-2022 Green Supplier of Schneider Electric

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☐ OUR CAPABILITIES

- R & D capabilities for power/energy applications

  - Embedded System Design
  - ARM-based Embedded and Linux Application Development
  - Monitoring/Measurement Technologies
  - Analog/Digital Signal Processing
  - I/O Control Technologies
  - Power Supply Monitoring and Protection
  - Industrial Field Bus
  - Networking
  - Wired/Wireless Communication
  - IoT Whole-stack Techniques
  - Industrial Design
  - We can help customer conduct pilot evaluation/tests of product standard conformity, potentially help them reduce the time and cost of lab tests
    - Pattern Approval
    - Product Safety
    - EMC
    - EMR
  - Well-quipped Safety，Environment, EMC, EMR testing capabilities

- Device^{PLUS+} ------- our IoT capabilities

Embedded: MCU/MPU + Sensor + I/O	• Embedded system Design, development, manufacturing and testing • Power supply design • Measurement, analogue/digital signal processing • I/O • Safety, EMC, EMR conformity design	We use: arm C Python Linux

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Communication/Networking	• Field bus experience and knowledge: Ethernet, Modbus, Profibus, CAN Bus, Profinet, LoRa • Networking experience and knowledge: LPWAN, LTE, IEEE802.11 • Application Level: HTTP, MQTT etc.	
Edge Computing/Gateway	• Data query and control logic implementation (Python, C++) • Local database • Local dashboard • Data analysis (powered by Azure IoT Edge and our machine learning partner companies)	**We use:**
Cloud Application Device Management	• We can use the Azure platform to provide tailored device management functions. • Our hardware platform is well-tuned with the Azure platform • Other public cloud platform (such as AWS, Ali-cloud) can also be implemented • Support of customer's proprietary server	**We use:** Customer's proprietary Server

- Manufacturing capabilities (via BFHY Electric)
  - Pilot and Batch Manufacturing
  - Project/Product Management
  - Quality control
  - Dedicated Inline Testing Equipment

- Cost control for the best outcome of our clients

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DEMO CASES

IoT Dispenser

IOT Freezer Controller

- **Smart Control**：We help our customers design and build smart digital control boards, bringing in enhanced local and remote control with history logging

- **Device Online Monitoring**：Online and real-time monitoring of device parameters such as temperature, pressure, geo-location, status, material stock etc.

- **Sales Data**：Real-time and aggregated sales raw data for further analysis

- **IOT Freezer controller**：Temperature measurement and control；Remote control，Light control，Operation control and statistics，Fan control, Compressor control

Local+ Remote Control

Remote Device Management

Data Mining and Analysis Enabled

Customer's proprietary Server

SUPPLY CHAIN CUSTOMERS OF BFHY ELECTRIC

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