

AMPLICON HELP TOWARDS POWER EFFICIENCY AND ENERGY COST SAVING ↘

Mardix is one of the UK's leading providers of switchgear, power distribution and power management systems. Derived from the need for a seamless provision of products with monitoring and control, their power management division provide complete power and energy monitoring solutions.

Innovations such as the Mardix iPDU and Mardix iBoard have become industry standards for data centres and their progression in final circuit monitoring technology and thermal trending has kept Mardix at the leading edge of Power Management Systems (PMS).

THE REQUIREMENT & SOLUTION ↘

Mardix required a compact DIN rail mountable Modbus RS485 to TCP Ethernet gateway to retrieve information from multiple Modbus serial devices within their products and third party equipment. These devices are typically power metering and other ModBus communicating devices. This information is then collected by a PLC for alarming and display on an HMI.

The status and metering information is also collected and analysed by Mardix own Power Management System software. This comprehensive information allows Mardix clients to gain real time visibility and data from the power distribution equipment from main incoming high voltage utility supply right through to the final circuits feeding each individual server rack in the data hall.



Through consultation with Amplicon the needs for the gateway were discussed with the Mardix technical team and the MB3170 was identified as the ideal solution.

One of the main requirements was a gateway with a powerful feature set; with a small profile and footprint allowing the easy installation within equipment where space can be at a premium and screw terminals to terminate the field RS485 and power wiring. The Moxa MB3170 satisfied all of these requirements.

THE RESULTS 🏆

Mardix engineers carried out a field trial of the MB3170 which proved to be successful and it was subsequently adopted as the standard gateway in all Mardix designs.

With over 300 installed and in full operation the unit has proved itself to be simple to setup utilising the Moxa software tools; and with the added features provided by the Moxa tools, any problems with serial slaves are easily identifiable.

The device has demonstrated very reliable, high throughput of data to the master system.

WHY AMPLICON? 🏆

The expertise demonstrated by the Amplicon Moxa specialists, and the level of all round data communications knowledge combined with strong post sales technical support was a key factor in the choice Mardix made when selecting Amplicon as their supply partner.