



Sector: Warehousing & Logistics

Business Type: Manufacturing

Solution: Cambium cloud networking solution

Services: WiFi survey, design, installation, support

Highlights:

- Anord Mardix is the world's leading electrical engineering and manufacturing organisation.
- To maintain production efficiency at its UK facilities, robust, communications is essential.
- Following an upgrade to newer technology and mobile devices, its existing WiFi couldn't cope with network demand and its workforce was experiencing dropouts in scanning products.
- Anord Mardix needed bullet proof WiFi and selected warehouse WiFi experts Redway Networks to provide its new wireless solution.
- A Cambium WiFi solution was recommended as its cnPilot technology is 'water tight' and ideal to withstand complex, dusty environments.
- Redway Networks delivered a seamless migration to Cambium with no interruption to the business.
- Anord Mardix now has a robust wireless network and faster WiFi which has improved warehouse efficiency and future proofed the business.

Anord Mardix

Anord Mardix improves network capacity at UK sites with robust WiFi from Redway Networks.

Anord Mardix has improved wireless network performance at three of its UK production facilities with a high-performance WiFi solution from Redway Networks. The new Cambium cloud-networking platform is providing uninterrupted communications between its in-house operations software and over 1,000 mobile devices used for scanning equipment on the shop floor. The new WiFi has delivered seamless connectivity and much faster network speeds for its workforce.

Anord Mardix is the world's leading electrical engineering and manufacturing organisation with facilities across EMEA, APAC and North America ensuring critical power supply to a myriad of industries with customers including leading social media providers and data hosting giants around the world. Anord Mardix brings over 100 years of experience in comprehensive engineering excellence to each of its projects and to continuously exceed client demand, it relies heavily on a robust communications infrastructure.

Inadequate coverage from existing WiFi

Due to Anord Mardix's continued expansion and adoption of the latest technology and mobile devices, its existing WiFi solution couldn't support the connectivity and coverage demands of its 10,100 sq./ft production space in Blackburn and the combined 140,000 sq./ft of production and fabrication space across its two sites in Kendal. Its workforce was experiencing WiFi dropouts which was reducing efficiencies in scanning products for assembly. Anord Mardix decided to upgrade its WiFi to a more robust, modern solution that would provide better network capacity and future proof the business.

Redway Networks selected for new WiFi

Toby Turner, Group IT Director at Anord Mardix says: "Our business has grown enormously and because the legacy WiFi was originally set up for devices on the 2.4GHz range it wasn't optimised to support our needs as we moved to newer devices on the 5GHz range, which meant we kept losing connection. We have an inhouse iOS application that we use to scan and log product build times and due to the slow WiFi and inadequate coverage our workforce was spending more time at the final product scan stage which was delaying getting products out of the door. This highlighted the need to upgrade our wireless network to a more up-to-date, resilient wireless network that would speed up this process and improve efficiencies."

Toby says: "Once we identified our requirements, I spent a couple of days looking at wireless vendors and Redway Networks really stood out as the company to use as I was impressed with its warehouse WiFi knowledge and customer testimonials. We needed bullet proof WiFi and as an independent wireless vendor, I knew Redway Networks had the wireless experience to recommend the best-fit solution."

Redway Networks then conducted a professional WiFi survey which involved walking every inch of the three facilities to determine where the existing access points (APs) were placed, and the improvements the new APs would give in terms of radio frequency signal strength, coverage, and capacity, with the results verified using Ekahau's heat-mapping software. The report was then presented to Anord Mardix to demonstrate the transformational changes a new Cambium WiFi6 solution would deliver both now and for technology trends in the future.

Anord Mardix selects Cambium

Toby says: "Due to the nature of our business our facilities are complex, dusty environments with lots of components that can interfere with the WiFi signal, so we needed robust APs and Redway Networks recommended Cambium as its cnPilot WiFi technology is 'watertight' and can withstand the heat and dust of warehouse environments. It also has many antenna options to ensure the WiFi signal is always strongest where needed."

Toby says: "Redway Networks gave me the WiFi report on what we currently had and what we would have with Cambium in terms of improved performance. I then presented our HR department

with a blended hourly rate which highlighted how many hours were being wasted by staff waiting for the existing WiFi to work and how this was affecting efficiency. This confirmed that Cambium would provide exceptional WiFi performance at a low total cost of ownership."

Redway Networks delivered a seamless migration to the new Cambium WiFi with no interruption to Anord Mardix's business.

Toby says: "Redway Network's engineer was brilliant and the changeover to Cambium was seamless. He created the same SSI and password for all the devices on the shop floor so as soon as an old AP was switched off, the new AP was switched on."

New WiFi is a game changer during Covid

Toby says: "We also had external APs mounted at our Blackburn site as this is where we do our client factory acceptance testing when customers can't come onsite. This involves a build pod for assembling our switchgear so that it gets delivered as one unit. Before our new Cambium WiFi, we had to run cables outside to the test team's laptops which was a nuisance. But now we can do all our remote testing seamlessly on the WiFi in full HD video, which turned out to be a real game changer for us during the pandemic."

Anord Mardix now has a robust, secure WiFi solution that never loses signal and has improved network visibility and management. Toby says: "We now have one pane of glass for all our network monitoring and control functions which has given us more visibility on what's going on with the network. My team can see any network issues quickly and troubleshoot remotely which has saved considerable time."

Cambium delivers results

Toby says: "Cambium has given us much better network reliability and speed and we now have great coverage in all our facilities with no black spots, which has definitely improved warehouse productivity. Even with our high racking at Castle Mills, Cambium's directional antenna can send the signal down in between the racking and deliver a constant connection to even the smallest devices. Our old WiFi was omnidirectional which only gave a dome of coverage which never materialised into a decent connection. I'm really impressed with our new Cambium WiFi, and Redway Networks delivered an exceptional service throughout the whole project."

Toby concludes: "You just expect your WiFi to work so for me, no news is good news, which is what I love about our new Cambium WiFi, and I would recommend Redway Networks 100%."