



Red-M Wireless Product Solutions

LET RED-M'S EXPERTISE IN ALL THINGS WIRELESS - PRODUCTS, SERVICES, DESIGN AND SYSTEMS INTEGRATION - HELP BROADEN YOUR BUSINESS OPPORTUNITIES



THE USE OF WIRELESS TECHNOLOGIES IN BUSINESS HAS GROWN OVER THE LAST FEW YEARS FROM A 'NICE TO HAVE' TECHNOLOGY TO A FUNDAMENTAL PART OF IT INFRASTRUCTURE. COMPANIES ARE BEING PRESSED TO DELIVER WIRELESS SOLUTIONS TO SUPPORT BUSINESS PROCESS CHANGE AND ENABLE NEW BUSINESS MODELS. WITH WIRELESS TECHNOLOGY STRETCHING THE CAPABILITIES OF MANY COMPANIES, RED-M CAN HELP YOU BEST SERVE YOUR WIRELESS REQUIREMENTS.

WIRELESS IS TODAY'S CHOICE

Business process improvements are driving wireless to become the enabler of choice for many businesses.

With an increasing number of cost effective and multifunction wireless devices now available, Wi-Fi and other wireless technologies are becoming an important part of today's business infrastructure.

Businesses are now looking for the business process benefits that wireless delivers, such as staff mobility, quality voice over Wi-Fi and seamless mission critical data applications like video surveillance and location tracking, enabling them to reduce their costs whilst improving their business efficiency.

Working with Red-M will broaden your business opportunities and enhance your solution offerings by helping you best serve the growing demands for wireless solutions and applications.

ABOUT RED-M

Red-M is the UK's premier wireless consultancy and systems integration expert. Red-M helps you address the wireless needs of your customers and win major wireless infrastructure projects without the need for any internal outlay in wireless skills and resource.

By working with Red-M, you can help your customers fully realise the benefits of wireless systems.

Red-M's insight into the opportunities and challenges of current and future wireless technologies will help you create mission critical wireless networks, delivered to your customers requirements.

OUR PROJECTS

Red-M has an exemplary reputation in delivering wireless solutions from major campus type environments to multisite intercommunications for some of the UK's most prestigious organisations and high profile projects.

Red-M have successfully completed 1000's of projects and delivered over 300 major wireless systems in a range of diverse and challenging locations, such as Corporate HQ's & Hospitals, Airports & Stations, Shopping Centres & Stadiums.

KNOWLEDGE OF TECHNOLOGY

Red-M understands that wireless is complex with many types of technologies, topologies and protocols. Different needs for similar business solutions are dependent on the environment, location and specific applications being deployed.

Overlaying these applications on top of basic Wi-Fi implementation takes highly specialised RF and spectrum management resource.

Red-M's consultants, designers and installation team can help you to effectively extend your infrastructure capabilities, bringing the skills to enable you to deliver complex, mission critical wireless solutions to your customers requirements, right, first time.

WIRELESS PRODUCT SOLUTIONS

Red-M offers a range of wireless solutions to meet the needs of today's business.

IN-BUILDING SOLUTIONS

Wi-Fi for seamless, flexible in-building coverage for Voice and Data applications. Red-M's Wi-Fi provides anytime, anywhere access to information.

- **Coverage** - exactly where needed with minimum leakage
- **Authentication** - solid and robust user and network identification
- **Encryption** - scrambled data to prevent interception
- **Configuration** - for network security

Wi-Fi solutions range from simple, small developments with standard application requirements (Email, Internet Access, EPOS, Bar Codes) to sophisticated large developments with enterprise applications (VoIP, Real Time Location Systems, Video Streaming).

Distributed Antenna Systems (DAS)

provide coverage for a variety of technologies such as Cellular, PMR etc.

- **Coverage** - exactly where wireless access is needed
- **Capacity** - to meet both users and application needs
- **Security** - to prevent any risk and problems
- **Quality** - designed to meet required levels of service

DAS solutions range from small, single technology developments to large multiple technology developments.

INTER-BUILDING SOLUTIONS

Radio Extension Service (RES) for fast, seamless Point to Point and Point to Multipoint connection between buildings.

- **Quick Installation** - usually within 4 weeks
- **No downtime** - permanently connected 24hours a day, 365 days a year
- **Fully Managed** - continuous proactive link monitoring
- **24/7 Maintenance** - with 4hr response time and 8hr service restoration

RES offers a range of options from 10Mbps to 1Gbps with standard availability of 99.99% and a range of up to 25km.

Carrier Ethernet Extension Service (CEES)

provides last mile Point to Point and Point to Multipoint connectivity for alternative carriers with the added benefit of no costly 'Excess Construction' charges.

- **Fast Installation** - usually within 4 weeks
- **No downtime** - permanently connected 24hours a day, 365 days a year
- **Fully Managed** - continuous proactive link monitoring
- **24/7 Maintenance** - with 4hr response time and 8hr service restoration

RES offers a range of options from 10Mbps to 1Gbps with standard availability of 99.99% and a range of up to 25km. When combined with RES, CEES can deliver value added network services.

WIDE AREA SOLUTIONS

Wireless Mesh provides cost efficient town centre and campus-wide outdoor coverage solutions for voice and data applications.

- **Flexible and Mobile** - access to applications when out of the office
- **Lower Cost Implementation** - with easy addition of network devices
- **Integration** - works with existing network technology
- **Security** - as it's an extension of the in-building network

Wireless Mesh solutions can be used to access a variety of voice and data applications when out of the office and extend an in-building cordless phone service to reduce mobile costs. Wireless Mesh supports a number of different devices such as laptops, PDA's and VoIP phones and provides a cost effective backhaul service for mobile CCTV cameras.

SPECTRUM SOLUTIONS

Red-Link spectrum supports high quality interference free radio links at 28GHz with 3.5, 7, 14 and 28MHz bandwidths. It is also suitable for Dynamic Modulation enabling high throughput and high availability at the same time.

- **Simple Order Process** - an easy 2-page application form to complete
- **Quick Response** - frequencies can be assigned within 5 days
- **Future Proof** - link reservation available for additional spectrum assignment
- **Compatibility** - almost all Point to Point equipment is suitable for Red-Link use

Red-Link offers fully managed spectrum solutions which provide a quicker and more flexible frequency assignment solution than Ofcom.

Independent of equipment vendors and technologies, Red-M enables organisations to fully realise the benefits of wireless systems by delivering high quality solutions through an integrated five step cycle of best practice:

1. CONSULTING

Defining exactly how, when and where wireless will be used.

2. AUDIT

Understanding what is happening and developing a design baseline.

3. DESIGN

Optimum wireless performance from a design that works right, first time.

4. IMPLEMENT

A non-disruptive installation using best-of-breed technologies.

5. MANAGE

Maintaining a healthy network that continues to meet your needs.



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when wireless matters™