

# WIRELESS EXCELLENCE

## Application Note

### Corporate and Campus Network Connectivity

### Gigabit Wireless Networks



## About Wireless Excellence

Founded in 1995 and with headquarters in Oxford UK, Wireless Excellence Limited is a leading designer and supplier of outdoor and indoor Broadband Wireless communication products.

With a complete range of solutions including Radio, Microwave, Millimeter-Wave, Free Space Optics, WiFi and WiMax solutions, customers in over 60 countries have chosen Wireless Excellence as the “one stop shop” solution of choice for dependable wireless networking.

## Scenario

Corporate and Campus network users often face a familiar problem; connecting multiple buildings in busy areas separated by obstacles such as roads, rivers and urban development. Traditional connections using Fibre Optic, Leased Line or Microwave radio can prove costly or incur unacceptable delays.

Wireless Excellence solves the problem with high-capacity, highly reliable and secure wireless solutions with low cost of ownership. CableFree products offer up to Gigabit capacity throughput and are installed in hours, not weeks.

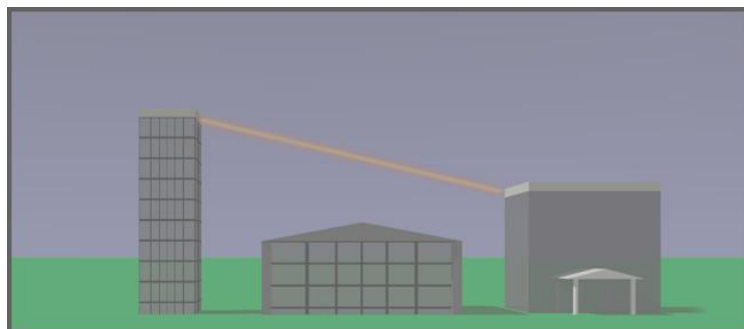
## Solution

A CableFree wireless solution offers the following features and benefits:

High Performance	Gigabit Ethernet (1.25Gbps) on FSO, MMW, and Microwave, 220Mbps on Radio
Rapid installation:	3 hours achievable
Highly reliable:	99.999% availability achievable
License-free Operation:	No fees to pay on license free bands
No monthly rental fee:	Low maintenance solution
Diverse technology options:	Complete range of FSO, Broadband Radio, Microwave, MMW, WiFi
Fully manageable:	Advanced software tools
Resilient solutions:	1+1 Hybrid FSO+RF resilient link options
Highly Secure:	Proven inherently secure technologies
Low Total-Cost-of-Ownership (TCO):	Moveable asset
Safe & Environmentally friendly:	Low disruption during installation

CableFree products are field-proven, with thousands of deployments in over 60 countries since 1997. Excellence in performance and reliability are not sacrificed in providing highly competitive priced solutions together with a comprehensive range of support services.

## Application Diagram



Two or more buildings are connected by CableFree wireless products. Clear Line-of-Sight (LOS) for FSO or Near-Line-of-Sight (NLOS) for radio is required.

The customer network (data and/or voice) is connected to the wireless units which can be mounted on rooftops, towers, poles or behind windows.

A site survey is recommended before installation, to determine suitable mounting points, location of cable runs etc. Installation involves physically mounting the equipment, aligning it, connecting data and power circuits and commissioning.

## Recommended Products

CableFree Access	FSO Connectivity up to 155Mbps, range up to 4km
CableFree 622	FSO Connectivity up to 622Mbps, range up to 2km
CableFree Gigabit	FSO Gigabit Ethernet and Fibre Channel up to 1.5km
CableFree HPR-MIMO	Radio links up to 220Mbps, range up to 40km
CableFree HPR	Radio links up to 72Mbps, range up to 40km
CableFree MPR	Radio links up to 30Mbps, range up to 40km
CableFree MW	Licensed Microwave links up to 1Gbps, range up to 100km
CableFree MMW	60/70GHz Millimeter Wave links up to 1Gbps, range up to 100km
CableFree WiFi	High performance WiFi for indoor and outdoor coverage

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## For More Information

Please contact Wireless Excellence Ltd for information on the complete range of CableFree products and services

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