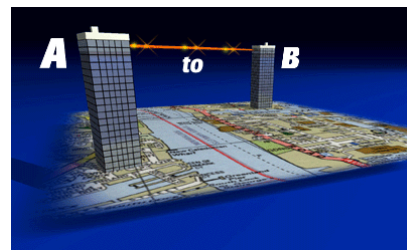


CableFree

W i r e l e s s E x c e l l e n c e

CableFree Solutions Limited
Holly House, St Clare Business Park,
Holly Road, Hampton Hill, Middlesex TW12 1QQ
T: +44 (020) 8941 7975 E : info@cablefreesolutions.com
F: +44 (020) 8941 2410 W: www.cablefreesolutions.com



Application Note: Mobile, Temporary & Disaster Recovery Networks

Scenario

Fast-moving companies often need to change premises or take over additional space whilst maintaining connection to computer networks – and temporary events such as trade shows and conferences often require broadband network connections where cables do not run.

Natural disasters, terrorist attacks and emergency situations are by nature unpredictable – and require flexible and innovative responses. In the modern age, communication systems are a fundamental requirement in managing a complex situation and creating order from chaos.

Mobile control centres are often brought in, with vehicles that need to be connected to a number of other centres, observation points or services, but local infrastructure may be damaged, inadequate or unreliable.

Modern data networks demand high-speed connectivity – from 10/100Mbps Ethernet, Gigabit Ethernet plus voice services. Leased lines or fibre are inflexible and the physical cable run may prove impossible or prone to subsequent damage. Microwave links require licensing and often suffer from interference, multipath and signal reflections – and public health fears in urban areas make them unpopular with residents.

CableFree solves the problem with high-capacity, highly reliable wireless solutions with low cost of ownership. CableFree products offer Gigabit capacity links which are installed in hours, not weeks.

Solution

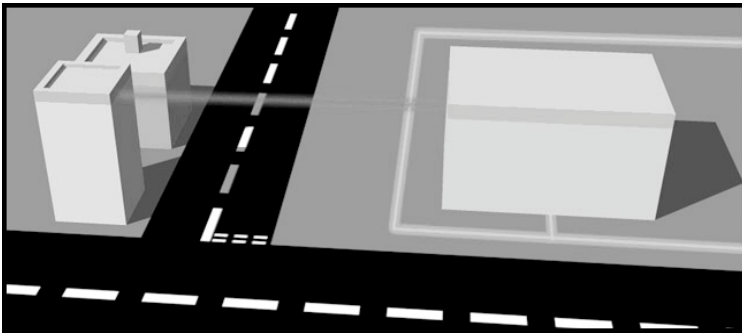
A CableFree solution offers the following features and benefits:

High performance:	Gigabit Ethernet FSO, 72Mbps radio
Rapid installation:	3 hours achievable; 15 minutes on tripods
Highly reliable:	99.999% availability achievable
License-free Operation:	No fees to pay
No monthly rental fee:	Low maintenance solution
Diverse technology options:	Free Space Optics & Broadband Radio
Fully manageable:	Advanced software tools
Resilient solutions:	1+1 FSO+radio dual link options
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 50 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 vehicles or 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 data (video, data and/or voice) is connected to the wireless units which can be mounted on tripods, rooftops, towers, poles or behind windows.

For permanent installation 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 Systems

CableFree Access Connectivity up to 155Mbps, range up to 4km

CableFree 622 Connectivity up to 622Mbps, range up to 2km

CableFree Gigabit Gigabit Ethernet and Fibre Channel up to 1.5km

LaserHop E1, Fast and Gigabit Ethernet up to 1km

CableFree HPR Radio links up to 72Mbps, range up to 40km

CableFree MPR Radio links up to 30Mbps, range up to 40km

Data formats supported

E1/G703 2Mbps • E2 8Mbps • E3 34Mbps • T1 1.5Mbps • STM-1 & STM-4 •

Ethernet 10, 100 & 1000Mbps • ATM-155 & 622Mbps, Token Ring • FDDI •

Fibre Channel • Broadcast Video and CCTV •

Multiplexed voice and data 10+2 and 100+2 solutions available

For more information, please contact CableFree

CableFree Solutions Limited
Holly House, St Clare Business Park
Holly Road, Hampton Hill
Middlesex TW12 1QQ United Kingdom

T +44 (0)20 8941 7975

F +44 (0)20 8941 2410

E info@cablefreesolutions.com

W www.cablefreesolutions.com