

Networks rely upon fixed cabling links in order to communicate, however installing cabling is not always a practical solution in the environment networks need to operate. Alternative solutions for inter-building links normally require expensive leased lines, or offer only limited bandwidth. Within premises, business increasingly demands access to communications wherever users are located. Protocol Network Integration specialises in designing and installing high bandwidth wireless networks, to provide solutions for both indoor and outdoor applications.

Outdoor Wireless Networking

Protocol network Integration supply and install the Skynet and Skycom range of infra-red links which connect data and voice networks over a line of sight. Each unit is similar in dimensions to a CCTV camera and can be mounted on a wall or roof, usually within a day. The units have to advantage of being portable, low cost and offering high bandwidth over long distances.

The technology uses an infra-red beam which is unaffected by temperature or climate changes over the rated distance. Typical applications include providing links between buildings separated by obstacles such as a river or major road, where the creation of cable duct routes is not feasible. For business critical cable connections, Skynet and Skycom offer the safety net of a back up link.

Indoor Wireless networking

Protocol Network Integration supplies and installs the JVC VIPSLAN-10 product range of indoor wireless networking products. VIPSLAN-10 is the first product range to use an infra-red beam fully IEEE802.3 compliant, to replace cabling with a full 10Mbps Ethernet signal. Amongst the many applications are problematic buildings where connections are needed in an area with a solid marble or concrete floor. VISPLAN-10 is also ideal for environments such as hospitals, where radio interference on mobile data connections is not acceptable. Temporary networks for training rooms or exhibitions can be set up in minutes, without any need to install cabling.

Radio-Frequency wireless Systems

Protocol Network integration also designs and installs wireless network systems that utilise radio-frequency transmission. These systems provide extensive coverage areas and a seamless connection for roaming mobile devices/

State-of-the-art technology is used to transmit voice or data connections, throughout a premises or in between buildings, without the requirement for a license. Network Management and upgradability is provided via software.