FS2000N Wireless Bridge

Features

The FS2000N Wireless Bridge Kit is a ruggedised, high performance wireless bridge system. It is capable of delivering over 200Mbit-sec of usable data throughput and is specifically designed to target longer range applications between 3 and 10km.

The FS2000N is built upon FreeSpace Networks' FWA wireless platform and integrates a high gain, 22dBi MIMO antenna. The FS2000N provides a radical leap in performance when compared to existing legacy solutions and can deliver up to 6 times the data throughput.

The FS2000n supports all 5Ghz license exempt frequencies and has been optimised for point to point wireless applications including high bandwidth building links for data and voice, leased fibre replacement and longer range wireless CCTV applications.

In addition to supporting standard 802.11n operation, the FS2000N also offers the ability to interface with legacy equipment, including the FS1000/FS2000. With its built in 128-bit AES-CCM hardware encryption, secure management interface and MAC address access control, the FS2000N provides a superior level of transmission protection and data security.

Product Highlights

- 200+ Mbit/sec peak throughput
- Ideal for medium and long distance applications
- 4.9- 6.1 GHz operation, subject to local restrictions
- 22dBi 12° dual polarised 2x2 integrated antenna
- Factory configured bridge kit
- Rugged IP67 enclosure
- Up to 22dBm transmit power
- Full Duplex 10/100/1000 Gigabit Ethernet
- DFS/TPC support to EN301893 v1.5.1 (DFS3.0)
- Dynamic transmit optimisation
- 10W under full load

Applications

The FS2000N is an ideal choice for longer range applications that cannot be satisfied by the FS1000N wireless bridge.

Applications include :

- Wireless transmission of
    - CCTV
    - DATA
    - VOIP

- Leased fibre replacement

- Rural broadband Internet access

- High capacity trunk links & back-haul

- Citywide networks

- Long range wireless CCTV transmission

- Temporary networks for:

    - Public Events
    - Construction Projects
    - Marine Applications

Solutions for the wireless industry

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Hardware Specifications

RADIO	
Operating frequency	5.1 - 5.875GHz (depending on local legislation)
Modulation	OFDM: 16QAM, 64QAM (802.11na) with automatic rate adaptation
Maximum RF output power	18dBm (158mW), HT40 2x2 MCS15 Mode
Antenna	22dBi 12° dual polarised 2x2 integrated antenna
Maximum EIRP	40dBi (Automatic adjustment based upon territory setting)
Maximum datarate	300 Mbps in HT40 2x2 MCS15 Mode
DFS/TPC support	conforms to 802.11h
Security	128bit AES-CCM Hardware Cipher

Interface	
Ethernet	802.3ab, 802.3u, 802.3i (10/100/1000 Mbit Ethernet) with auto cross-over and negotiation
Ethernet connector	standard RJ45 with field installable IP67 fitting

Power	
PSU type	802.3at (48Vdc) Power Over Ethernet (PoE)
Typical power consumption	10W

Environmental	
Environment	IP67
Operatng temperature	-20 to +60°C
Humidity	95% RH Non-condensing

Physical	
Dimensions	320mm x 320mm x 80mm
Weight	3kg

Approval
IR2006 (5150-5725MHz) IR2007(5725-5850MHz), EN302-502(DFS/TPC), EN301-489 (ERM/EMC) EN60950 (Safety)

Warranty
1 Year return to base

Software Specifications

Management Interface	
Remote access	WifiMonitor NMS Tool, Onboard Webserver
Remote Monitoring	SNMP, WiFiMonitor

Security	
Encryption	128bit AES-CCM with WPA/WPA2 Support
Device Access Control	MAC based Access/Deny Control

Data management	
VLAN	802.1q and trunked applications
QoS	802.1p

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