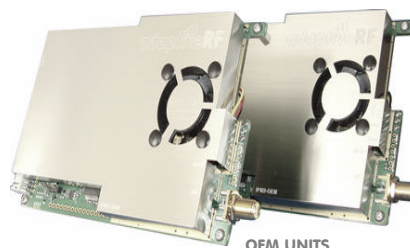# adaptiveRF
expertise in wireless design

COFDM Wireless IP Bridge – IPM2
IP surveillance made simple

Introducing the IPM2

The IPM2 is a multi-megabit wireless IP/Ethernet solution with advanced security features. The IPM2 has been designed for use with IP-based video surveillance equipment but can easily function to complement and extend IP networks. Unlike 802.11-type CSMA-based solutions the IPM2 operates on a token-based TDMA MAC which aids in the provision of uninterrupted IP video streaming and low latency data transfers. OFDM modulation mitigates harmful radio multipath effects allowing the units to be used in non-line of sight and mobile applications.

OEM UNITS

Features

- Compact design
- Easily integrated into existing or new equipment
- Up to 20 Mb/s real throughput
- Range 1km+ using dipole antennas
- Point-to-Point/Multipoint/Repeater operating modes
- Hardware-based 256 bit AES and 3DES Encryption
- Packet prioritisation
- Rechargeable Battery Support
- RSSI output
- Serial console port
- Low power consumption
- Direct connection for IP cameras
- Channel selection

Technical

Physical
OEM: 123 x 77 x 17 mm Portable: 130 x 80 x 36 mm Outdoor (IP67): 215 x 120 x 65 mm Operating Temp: -10 to +55° C

Power requirements
OEM: 8w (typical) 9.5-15v dc Portable: 8w (typical) 9.5-15v dc Outdoor: POE (802.3af/t compliant) 11w (Typical)

Radio
Frequency range: 1150-1400Mhz (1600-1700Mhz and 2300-2500Mhz in development) RF output power: 0.5W (1W in development) Channel Bandwidth: 10Mhz Subcarriers: 768 adaptively bit loaded

Applications

- IP video surveillance
- Homeland security
- UAVs/UGVs
- HD video streaming
- Rapid deployment systems
- Wireless ethernet extention
- First responder
- Covert operations

adaptiveRF Ltd is the designer and manufacturer of the IPM2 product range and dependent on volume requirements can offer customer specific frequency, bandwidth and RF output power variants.

For further information please contact adaptiveRF Ltd.

IP67-RATED POE OUTDOOR UNIT