

COFDM Wireless Video Links – IPM2

... wireless 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 wireless streaming of IP video surveillance equipment and can be easily integrated with existing IP networks. Unlike 802.11-type CSMA-based solutions the IPM2 operates on a token-based TDMA MAC which aids in the provision of low latency IP video streaming with no “hidden node” issues. COFDM modulation mitigates harmful radio multipath effects allowing the units to be used in non-line of sight and mobile applications.



Features

- Compact design
- Auto configuration and connect at switch-on
- Easily integrated into IP equipment
- Up to 20 Mb/s TCP/IP throughput
- Range 1km+ LOS using dipole antennas
- Point-to-Point/Multipoint/Repeater operating modes
- Built-in hardware-based 128bit/256bit AES Encryption
- Packet prioritisation
- Rechargeable Battery Support
- RSSI output/antenna alignment indication
- Serial console/control port
- Low power consumption
- Direct Ethernet RJ45 connection for IP cameras
- Channel selection

Technical

Physical	
OEM:	123 x 77 x 17 mm weight = 140g
Portable:	130 x 80 x 36 mm weight = 300g 570g (with battery)
Outdoor:	215 x 120 x 65 mm weight = 900g
Operating Temp:	-10 to +55° C (0 to +35° C with internal battery)
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:	1200-1400MHz
RF output power:	500mW
Channel Bandwidth:	10MHz
COFDM Modulation	768 carriers
EN	302 064-1 approved

Applications

- IP video surveillance
- Homeland security
- UAVs/UGVs/ROVs (control + video payload)
- EOD Robots
- HD video streaming
- Rapid deployment
- First responder
- Covert operations
- Temporary events



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.

IPM2 Units are approved for use on the UK-only unlicensed 1394Mhz band.
Users outside the UK must comply with local frequency licensing laws/restrictions.
All product specifications are subject to change without notice. adaptiveRF Ltd will not be liable for any claims arising from technical or editorial errors or omissions.