



### Applications

- Networked IP wireless camera systems
- Ethernet connectable CCTV
- Point-to-point and point-to-multipoint links
- Covert surveillance
- Wireless Ethernet Bridge
- On scene video streaming

### Features

OFDM modulation provides adaptive RF data rate  
Integrated 802.1D-like Ethernet Bridge  
IEEE 802.3 10/100BASE-T Ethernet  
Rechargeable internal batteries (optional)  
Auxiliary +5V DC for external camera  
Status LEDs  
Ethernet throughput up to 20 Mbps  
Mixed DES/3DES encryption  
Flexible MAC (point-to-multipoint master-slave, point-to-point master-slave and peer-to-peer)  
Priority traffic marking  
Support for multicast and broadcast traffic

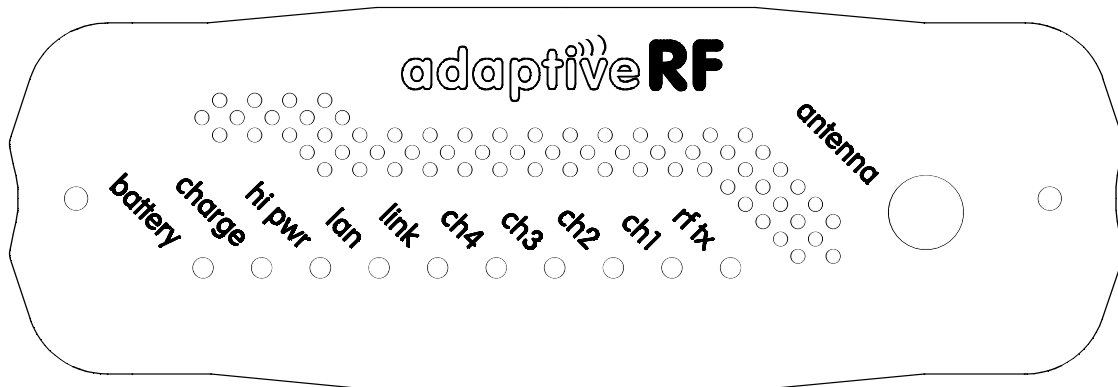
### Description

The IPML-10 is an IP-based wireless modem which provides a compact and portable solution to networking. The IPML-10 is designed primarily for use with IP-based surveillance cameras but can easily function to complement and complete IP networks.

With the optional internal rechargeable battery fitted, the IPML-10 can provide up to 2hrs of fully-portable usage. Charge control is incorporated in the unit and the battery will automatically charge when the AC power adapter is connected to the unit.

Using industry-recognised OFDM modulation the IPML-10 is ideal for usage in near and non-line-of-sight environments.

**Front Panel**



**Front Panel LED Functions**

Name	Description
battery	flashing = recharge reqd
charge	battery being charged (flash rate is proportional to charge rate)
hi pwr	transmit high power mode
lan	10/100 ethernet connected
link	radio link established (sync'd with other unit)
ch4	solid on = ch4 selected
ch3	solid on = ch3 selected
ch2	solid on = ch2 selected
ch1	solid on = ch1 selected
rf tx	rf transmitter "on"

## Rear Panel



## Rear Panel Connections

Connector	Description
dc / in	12V max (2A Max)
aux pwr out	+5v dc @1A (max) for external camera etc
ethernet	10/100 Ethernet port
on/off	on/off switch

## Internal Rechargeable Battery (Optional)

2400mAh NiMh or LiPo

## AC Adapter

The IPML-10 is supplied with an AC power adapter.

## Specifications

Parameter	MIN	TYP	MAX	UNITS	NOTES
RF operating frequency range	1200		1400	MHz	see default freq table
Modulation b/w		10		MHz	
TX o/p power		250		mW	
Rx Sensitivity		-82		dBm	to maintain sync
LOS range		>1km			with dipole antenna
Operating Voltage		12		Volts (dc)	
Operating Current		1000	1500	mA	1500mA with external camera connected
Aux power output current @5V			1000	mA	
Spurious Emissions RF Port			-57	dBm	
Frequency Stability		+/-2.5		ppm	(-10 to +55°C)
Operating Temperature	-10		+55	°C	
Weight		2		Kg	with rechargeable batts
Dimensions	W = 44	L = 208	H =122	mm	Excluding length of SMA connectors

## Approvals

Approval pending to ETSI EN 300 440-1

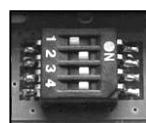
## Channel Selection

RF Channel frequency is selected by setting the internal DIP switch as shown in the table below:-

SW#	CHANNEL NUMBER			
	1 1272MHz	2 1288MHz	3 1304MHz	4 1320MHz
1	OFF	ON	OFF	ON
2	OFF	OFF	ON	ON

Note: any 4 channel frequencies in the 1200-1400MHz range can be programmed on request.

This photo shows DIP switch set to channel 3



**Typical RX Front End Filter Response**

