



**FWO-8110H**  
**FWO-8110R**

## Features

### High Performance Wireless Technology

- ✓ Wireless LAN IEEE 802.11a/b/g compliant
- ✓ Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.11a/b/g/ (AP & Backhaul)
- ✓ DHCP Server/Client, DNS Router, SNMP, VPN, NTP and Remote Syslog
- ✓ Customizable Firewall, WEP, WPA, Zero-Configuration with Adaptive DNS
- ✓ HTTP/HTTPS Secured Login, PPPoE and Access Control List Support.
- ✓ Supports up to 250 users simultaneously with both LAN and WLAN interface
- ✓ Mobile IP (with Mobile Location Register Server), IAPP, VPN Server,
- ✓ Built-in with QoS and traffic shaping mechanism for channel traffic control
- ✓ Service Priority Optimal Link State Routing (MDOLSR) Protocol



## Overview

The Falcon series FWO-8110H & FWO-8110R Wi-Fi Mesh Metropolitan Area Network solution extends the capability of Wi-Fi Local Area Network technologies (IEEE802.11) from providing just local area network connectivity to a wider reach and wide-area coverage without complicated wiring and wired backbone connection. These devices supports SNMP V1, V2 and V3 for high reliability for enterprises as well as residential (end-user) to have wireless broadband connectivity, with security, management and mobility taking into consideration. FWO-8110H and FWO-8110R include point-to-point solution and point-to-multipoint architecture with either normal (100mW) and/or extended (400mW) RF output transmission with external antenna. With the integration of routers, security features & adaptive backhaul routing algorithm & mobile IP provide both internet access and Wi-Fi VoIP applications. Ethernet Direct offers easy to install IP-68 protected outdoor wireless mesh & relay that operates under -30 to 70°C suitable for almost any environmental condition.

## Hardware Specifications

### Interface

**Antenna Type:** External gain antenna

**WAN Port:** RJ-45 x 1 (10/100Bast-T)

**LAN Por:** RJ-45 x 1 (10/100Bast-T)

### Power Requirements

#### Power:

DC 48V ± 5%; 1.37A (Max) ; Supply by PoE  
AC adaptor 100V-240V

#### Power consumption:

stand-by: 5.76 watts / Transmit: 7.2 watts

### Physical

#### Dimensions:

FWO-8110H 201 mm (W) x 245 mm (H) x 71.1mm (D)

FWO-8110R 201 mm (W) x 245 mm (H) x 71.1mm (D)

#### Weight:

FWO-8110H 5.54 kgs

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**Installation:** Panel or Pole mount or desktop

### Environmental

**Operating Temp:** -30 to 70°C (-22 to 158°F)

**Storage Temp:** -40 to 85°C (-40 to 185°F)

**Operating Humidity:** 5%-90% RH  
(Non-condensing)

## Technology Specifications

### Standard:

IEEE 802.11a/b/g, IEEE 802.3, IEEE 802.3u

### Frequency Support:

IEEE 802.11b/g (2.4 GHz)

IEEE 802.11a (5.0 GHz)

**Access Range (AP):** 2 km

### Antenna (AP):

2.4 GHz & 5.0 GHz Dual Band

Omn-directional Antenna

### Antenna (Backhaul):

5.0 GHz 12 dBi Omni

or Directional Antenna

### Data Rate:

11 Mbps, 54 Mbps with Dynamic fallback

### Protocol Supported:

IP, NAT, DHCP, NTP, PPPoE, DNS

### Security Systems:

WEP, AES, IEEE 802.1x, WPA 1/2, Firewall  
& VPN (PPTP, L2TP & X.509)

### Authentication:

HTTP/HTTPS Login with SSL encryption

802.1x and AAA Radius

### Services:

Zero configuration, Proxy bypass,  
DNS feed through, Mobile IP,  
IAPP, QoS and 200 KB internal WEB space,  
Free Web serving for specific area

### Management:

NMS,  
Local/Centralize web-based configuration  
SNMP V1/2/3  
AP Discovery  
Remote Syslog  
Remote firmware upgrade

## Regulatory Approvals

**Safety:** CE / EN60950-1

**EMI:** FCC Part 15

**EMC:** EN301 489-1, EN301 489-17

**Radio:** EN300 328

**Wi-Fi compliant:** YES

**Shock:** IEC60068-2-27

**Vibration:** IEC60068-2-6

**Free Fall:** IEC60068-2-32

**Environmental:** WEEE, RoHS

**MTBF:** 425,000 hrs based on Mil-Hdbk-217F, GB

**Warranty:** 5 years