

## IEEE 802.11 b/g Industrial Wireless Outdoor AP/Bridge



FWI-702

### Features

- High Performance Network Switching Technology
- ✓ Wireless LAN IEEE802.11b/g compliant
- ✓ Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.11b, IEEE 802.11g, IEEE 802.3af
- ✓ Supports radio modules 2.312-2.372 GHz for less interference
- ✓ Supports point to point and point to multi-point bridging function
- ✓ Flexible four operating modes: Access Point, Bridge, AP Client and Repeater
- ✓ Strong Network Security with 64/128/152-bit WEP encryption and WPA function
- ✓ Supports DFS/TPC ( Dynamic Frequency Selection and Transmit Power Control )
- ✓ Flexible Software configuration through WEB GUI interface for easy management
- Robust Industrial Design**
- ✓ Robust Weatherproof IP-67 housing protection
- Reliable Power Design**
- ✓ Supports Power Over Ethernet Design
- ✓ Supports power input of 48 VDC



### Overview

The Falcon series FWI-702 is a 2.3 GHz IEEE 802.11 b/g compliant Wireless Outdoor Access Point available for Industrial Ethernet applications. With innovative technology design, FWI-702 provides 54 Mbps high data rate for outdoor environment with less interference. It links two or more separate networks to create a single expanded LAN network cost effectively and efficiently. The robust IP-67 housing protects the device from harsh outdoor environment – weatherproof, waterproof, dustproof. A built-in 12dBi panel antenna is included for flexibility in installation. FWI-702 supports four different operation modes namely Access Point, Bridge, AP Client and Repeater. In addition, the built-in Power over Ethernet design reduces the cost of power cables installation and provides future proof investment. To secure information, it comes with WEP encryption and WPA function. With of these advanced features, FWI-702 is a powerful Outdoor CPE solution produced for Industrial applications.

### Hardware Specifications

#### Interface

**Antenna Type:** Integrated 12 dBi flat panel antenna

#### Access Point Interface:

Auto sensing MDI/MDI-X Ethernet 10/100Base-TX: RJ-45

**Flash:** 2 MB

**SDRAM:** 8 MB

#### Power Requirements

**Power Input:** DC 48V ± 5% ; 0.4A (Max.); Supply by PoE;  
PoE injector supports AC 100V~240V

**Output power:** 100 mW

**Power consumption:** stand-by: 2.76 watts / Transmit: 3.60 watts

#### Physical

**Dimensions:** IP-67 standard, 106 mm (W) x 186 mm (H) x 61 mm (D)

**Weight:** 2.11 kgs

**Installation:** Pole mount or desktop

**Accessories:** Cables + Bracket + Power over Ethernet adapter

#### Environmental

**Operating Temp:** -10 to 70°C (14 to 158°F)

**Storage Temp:** -40 to 85°C (14 to 158°F)

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

### Technology Specifications

#### Operating Type:

AP/Bridge/Wireless Client/Repeater

#### Standard:

IEEE 802.11b/g ; IEEE 802.3 ; IEEE 802.3u ; IEEE 802.3af

#### Radio Frequency Type:

DSSS (Direct Sequence Spread Spectrum)

OFDM (Orthogonal Frequency Division Multiplexing)

#### Modulation:

IEEE 802.11b: CCK, DQPSK, DBPSK

IEEE 802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM

#### Frequency Band:

2.312-2.372 GHz (13 channels)

**Transmission Power:** 802.11b/g: 20dBm

#### Transmission Rate:

IEEE 802.11b: 1/2/5.5/11 Mbps

IEEE 802.11g: 6/9/12/18/24/36/48/54 Mbps

#### Data Rate:

802.11g: Up to 54 Mbps

802.11b: Up to 11 Mbps

#### Sensitivity:

-86dBm @ 11 Mbps, PER< 8%; -64dBm @ 54 Mbps, PER< 10%

### 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

**Class 1 DIV 2:** Pending \*

**DNV:** Pending \*

**Environmental:** WEEE, RoHS

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

**Warranty:** 5 years

### Management Specifications

#### Software:

Site Survey

DHCP Client

Suppressed SSID

Wireless access control by MAC address  
(deny or accept)

WPA Support (WPA personal and enterprise)

Web-based configuration via popular browser  
(MS IE, Netscape ...)

Windows "Locator" program to help find IP  
in DHCP client mode

Firmware upgrade and configuration backup via Web  
Reset to default by Web-UI

#### Security:

64/128/152-bit WEP encryption

Wi-Fi protected Access (WPA)