

 **Features**

- High Performance Wireless Technology**
 - ✓ Compliant with IEEE standards
 - ✓ Supports radio frequency band from 2.412 to 2.472GHz
 - ✓ Flexible operating modes (AP/Repeater/AP+WDS)
 - ✓ Supports advanced wireless functions of Profile Isolation, Station Separation, VLAN and Priority, WMM(QoS), Multiple SSID with VLAN Tagging, and VPN Pass-Through (PPTP, L2TP, IPSEC)
 - ✓ Flexible software configuration via WEB GUI interface
 - ✓ Remote Telnet for easy management
 - ✓ Strong network security with 64/128/152-bit WEP encryption and WPA/WPA2 protection
- Reliable Power Design**
 - ✓ PoE design complies with IEEE 802.3af
 - ✓ Supports power input at 48VDC \pm 5%; 0.4A (Max.) or 12VDC \pm 5%; 2A(Max.); AC adapter 100 to 240VAC
- Robust Industrial Design**
 - ✓ Compact size, light weight & invisible cable for aesthetic design



FWI-705



 **Overview**

The Falcon Series FWI-705 is a compact size and light-weighted Indoor Wireless Ceiling Access Point especially for factory floors and industrial office complex requiring aesthetic design. FWI-705 operates in 2.4GHz IEEE 802.11 b/g compliant Wireless Indoor Access Point available for industrial Ethernet applications. With innovative technology and aesthetic design, the FWI-705 can be configured by using AP + WDS operating mode. It helps to expand the wireless network by using multiple access point without the need for a wired backbone to link to them. A built-in 4dBi directional antenna is included for flexibility in installation and the antenna diversity function makes FWI-705 most suitable for the indoor environment. FWI-705 supports three different operation modes namely Access Point, Repeater and AP + WDS. To secure information, it comes with WEP encryption and WPA/WPA2 function. With these advanced features, FWI-705 is a powerful indoor wireless solution produced for industrial applications.

 **Hardware Specifications**

Interface

Antenna Type: Built-in 4dBi directional panel antenna with antenna diversity function supported

Network Interface:

Auto sensing MDI/MDI-X 10/100Base-T(X) RJ-45 Ethernet
LEDs: WLAN, LAN, PWR

Power Requirements

Power Input: 48VDC \pm 5%; 0.4A (Max.) or 12VDC \pm 5%; 2A(Max.);
Supply by PoE; PoE injector supports 100 to 240VAC
Power Consumption: Stand-by: 2.16 watts; Transmit: 2.64 watts

 **Wireless Specifications**

Standard:

IEEE 802.11b for Wireless LAN/IEEE 802.11g for Wireless LAN
IEEE 802.11e Enhancement: QoS (WMM)
IEEE 802.11i Wireless Enhanced Security
IEEE 802.1D Spanning Tree/IEEE 802.1X User Authentication (Radius)
IEEE 802.3 10Base-T Ethernet/IEEE 802.3u 100Base-TX
IEEE 802.3af Power over Ethernet

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: America/FCC: 2.412 to 2.462GHz (11 channels)
Europe CE/ETSI: 2.412 to 2.472GHz (13 channels)

Output Power: IEEE 802.11b: 27dBm @ 1~11Mbps
IEEE 802.11g: 22dBm @ 54Mbps; 23dBm @ 48Mbps; 25dBm @ 36Mbps; 26dBm @ 6~24Mbps
Adjustable transmit power by 1dBm step

Operation Mode: AP/Repeater/AP + WDS

Data Rate: IEEE 802.11b: 1/2/5.5/11Mbps
IEEE 802.11g: 6/9/12/18/24/36/48/54Mbps

Receive Sensitivity: IEEE 802.11b: -97dBm @ 1Mbps; -89dBm @ 11Mbps,
PER < 8%
IEEE 802.11g: -92dBm @ 6Mbps; -74dBm @ 54Mbps,
PER < 10%

Physical

Dimensions: 346mm (W) x 286mm (H)
Installation: Ceiling mounting
Weight: 260g

Environmental

Operating Temperature: 0 to 50°C
Storage Temperature: -20 to 60°C
Operating Humidity: 5% to 90% RH (Non-condensing)

 **Regulatory Approvals**

Safety: CE, EN60950-1
EMI: FCC Part 15
EMC: EN301 489-1, EN301 489-17
Radio: EN300 328
Shock: IEC60068-2-27
Vibration: IEC60068-2-6
Free Fall: IEC60068-2-32
Environmental: WEEE, RoHS
Warranty: 5 years

 **Management Specifications**

Software:

Site Survey; DHCP Client; Suppressed SSID; Profile Isolation;
Station Separation; Multiple SSID with 802.1q VLAN tagging (up to 4 SSIDs);
Supports WMM(QoS), SNMP and Syslog;
VPN pass-through (PPTP, L2TP, IPSEC), Supports SNMP v1/v2c;
MIB support: MIB I, MIB II (RFC-1213) and Private MIB;
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 or Telnet;
Reset to default by WebUI or by Reset button

Security:

Wireless access control by MAC address
64-bit/128-bit/152-bit WEP encryption
WPA/WPA2 Supported (WPA personal and enterprise)

 **Ordering Information**

FWI-705	Industrial 2.4GHz 802.11b/g Indoor Wireless Ceiling Access Point (500mW), built-in 4dBi directional panel antenna
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