

FWO-712

IEEE 802.11 b/g Industrial Wireless Outdoor AP/Bridge



Features

High Performance Wireless Technology

- ✓ Wireless LAN IEEE802.11b/g compliant
- ✓ Compliant with IEEE 802.3 、 IEEE 802.3u 、 IEEE 802.3x 、 IEEE802.11b 、 IEEE802.11g 、 IEEE 802.3af
- ✓ Supports radio modules 2.4~2.472 GHz (802.11b/g)
- ✓ Supports Super G to transmit data rate up to 108 Mbps
- ✓ 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 and WPA encryption
- ✓ Supports DFS/TPC (Dynamic Frequency Selection and Transmit Power Control)
- ✓ Flexible Software configuration through WEB GUI interface & Remote Telnet for easy management

Robust Industrial Design

- ✓ Robust Weatherproof IP-68 housing protection

Reliable Power Design

- ✓ Supports Power Over Ethernet Design
- ✓ Supports power input of 48 VDC

Overview

The Falcon series FWO-712 is a 2.4 GHz IEEE 802.11 b/g compliant Wireless Outdoor Access Point available for Industrial Ethernet applications. With innovative technology design, FWO-712 provides 54 Mbps high data rate for outdoor environment which is faster than xDSL connection speed. It links two or more separate networks to create a single expanded LAN network cost effectively and efficiently. The robust IP-68 housing protects the device from harsh outdoor environment – weatherproof, waterproof, dustproof. FWO-712 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 WAP function. With of these advanced features, FWO-712 is a powerful Outdoor solution produced for Industrial applications.

Hardware Specifications

Interface

Antenna Type	Reverse N-type female External high gain antenna (optional)
Access Point Interface	Auto sensing MDI/MDI-X Ethernet 10/100Base-TX:RJ-45
Flash	2 MB bytes
SD RAM	8 MB bytes

Power Requirements

Power Input	DC 12 Volt ± 5%; 2A (Max.); AC adapter AC 100V ~ 240V
Output power	100 watts
Power consumption	19.2 watts

Physical

Dimensions	IP-68 standard, 152 mm (W) x 112.8 mm (H) x 35 mm (D)
Weight	1.8 kg
Installation	Panel mount or desktop
Accessories	Bracket + Power over Ethernet adapter

Environmental

Operating Temperature	Regular: -30 to 70°C
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5%~90% RH (Non-condensing)

Technology Specifications

Operating Type	AP/AP with Bridge/Wireless Client/Repeater
Standard	IEEE 802.11b/g ; IEEE802.3 ; IEEE802.3u ; 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	America/FCC : 2.412~2.462 GHz (11 channels) Europe CE/ETSI : 2.412~2.472 GHz (13 channels)
Transmission Power	802.11b/802.11g : 20dBm
Transmission Rate	IEEE 802.11b : 1/2/5.5/11 IEEE 802.11g : 6/9/12/18/24/36/48/54/108 Mbps
Data Rate	Super G: Up to 108Mbps 802.11g: Up to 54Mbps 802.11b: Up to 11Mbps
Sensitivity	IEEE 802.11b : -86dBm @ 11 Mbps, PER<8% IEEE 802.11g : -72dBm @ 54Mbps, PER<10%

Regulatory Approvals

EMI	FCC Class A
EMS	EN6100-4-2 EN6100-4-3 EN6100-4-4 EN6100-4-5 EN6100-4-6 EN6100-4-8 EN6100-4-11
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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 64 bit/128 bit/152 bit WEP encryption; Wi-Fi protected Access(WPA) and WPA2 WEP Setting: Open system/shared key Authentication Type WPA-PSK Setting: Pass Phrase, WPA Cipher type WPA Setting: Radius server IP address, WPA Cipher type

Ordering Information

FWO-712	802.11 b/g 2.4 GHz Industrial Wireless Outdoor AP/Bridge/Client/Repeater
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Recommended Accessories

Industrial Wireless 2.4HGz Antenna

Model	2.4HGz Specifications
Gridpak Antenna	
ANT-24020D	ANT Gain: 21dBii
	Beamwidth deg.: Horz. 8"
	Vert. 5"ng
ANT-24024D	ANT Gain: 24dBi
	Beamwidth deg: Horz. 8"
	Vert. 5"
ANT-24024D-1	ANT Gain: 24dBi
	Beamwidth deg.: Horz. 10"
	Vert. 14 "
Flat-panel Antenna	
ANT-2408D	ANT Gain: 8dBi
	Beamwidth deg.: Horz. 75"
	Vert. 75"
ANT-24018A	ANT Gain: 18dBi
	Beamwidth deg.: Horz. 30"
	Vert. 20"
ANT-24015A	ANT Gain: 15.5dBi
	Beamwidth deg.: Horz. 120"
	Vert. 7"
Omnidirectional Antenna	
ANT-2408O	ANT Gain: 8dBi
	Beamwidth deg.: Horz. 360"
	Vert. 8"
ANT-2415O	ANT Gain: 15dBi
	Beamwidth deg.: Horz. 360"
	Vert. 15"
YAGI Antenna	
ANT-24008E	ANT Gain: 8dBi
	Beamwidth deg.: Horz. 42"
	Vert. 21"
ANT-24013E	ANT Gain: 13dBi
	Beamwidth deg.: Horz. 32"
	Vert. 19"
ANT-24016E	ANT Gain: 16dBi
	Beamwidth deg.: Horz. 26"
	Vert. 15"

Industrial Wireless Accessories for 2.4GHz Antenna

- ASP-242 2.4GHz Antenna Splitter
- ASP-244 2.4GHz Antenna Splitter



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