FWO-713 | IEEE 802.11b Industrial Wireless Outdoor AP/Bridge

Features

High Performance Wireless Technology
✔ Wireless LAN IEEE802.11b 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)
✔ 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

RoHS

Overview

The Falcon series FWO-713 is a 2.4 GHz IEEE 802.11b compliant Wireless Outdoor Access Point available for Industrial Ethernet applications. With innovative technology design, FWO-713 provides 11 Mbps high data rate for outdoor environment. 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-713 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-713 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	1 MB bytes
SD RAM	4 MB bytes

Power Requirements

Power Input	DC 12 Volt ± 5%; 2A (Max.); AC adapter AC 100V ~ 240V
Output power	200 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 ; IEEE802.3 ; IEEE802.3u ; IEEE 802.3af
Radio Frequency Type	DSSS (Direct Sequence Spread Spectrum)
Modulation	IEEE 802.11b: CCK,DQPSK,DBPSK
Frequency Band	America/FCC: 2.412~2.462 GHz (11 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels) Japan: 2.412~2.484 GHz (14 channels) France: 2.457~2.472 GHz (4 channels) Spain: 2.457~2.462 GHz (2 channels)
Transmission Power	802.11b : 23dBm
Transmission Rate	IEEE 802.11b : 1/2/5.5/11
Data Rate	802.11b: Up to 11Mbps
Sensitivity	IEEE 802.11b : -86dBm @ 11 Mbps, PER<8%

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	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 bit/128 bit bit WEP encryption; Wi-Fi protected Access (WPA)

Ordering Information

FWO-713	802.11b 2.4 GHz Industrial Wireless Outdoor AP/Bridge/Client/Repeater

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