



# WLAN Module Specification

Approved by Customer
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Argox Information Co., Ltd.  
Doc. No.

## Wi-Fi module specification

Option name		Wireless LAN I/F kit		
Hardware		Standard		
Software	Enabled Device	IEEE802.11b/g/n		
	Operating temperature	B-FV4 Series		
	Storage temperature	-4 degF (-20 degC) ~ 185 degF (+85 degC)		
	Operating humidity	-40 degF ( -40 degC) ~ 185 degF (+85 degC)		
	Storage humidity	20 ~ 80 % Non-condensing R.H		
	Channel	20 ~ 85 % Non-condensing R.H		
	Frequency (Center Channel)	1 ~ 13ch		
	Channel spacing	2412 ~ 2472MHz		
	Channel setting by Region	5MHz		
	Transmission speed/ Modulation	1) 1 ~ 11ch Canada(CAN), Mexico(MEX), U.S.A.(USA)  2) 1 ~ 13ch Australia(AUS), Austria(AUT), Belgium(BEL), Bulgaria(BGR), China(CHN), Croatia(HRV), Cyprus(CYP), Czech Republic(CZE), Denmark(DNK), Estonia (EST), Finland(FIN), France(FRA), Germany(DEU), Greece(GRC), Hong Kong(HKG), Hungary(HUN), Iceland(ISL), Ireland(IRL), Italy(ITA), Latvia(LVA), Liechtenstein(LIE), Lithuania(LTU), Luxembourg(LUX), Malta(MLT), Netherlands(NLD), New Zealand(NZL), Norway(NOR), Poland(POL), Portugal(PRT), Republic of Korea(KOR), Republic of South Africa(ZAF), Romania(ROU), Slovakia(SVK), Slovenia(SVN), Spain(ESP), Sweden(SWE), Switzerland(CHE), Taiwan(TWN), United Kingdom(GBR)		
	Transmission speed/ Modulation Antenna	IEEE802.11b	Transmission method	Conforming to IEEE802.11b DSSS method
			Channel	Depending on the country
			Data transmission speed / Modulation	11/5.5Mbps:CCK 2Mbps:DQPSK 1Mbps:DBPSK
		IEEE802.11g	Transmission method	Conforming to IEEE802.11g OFDM method DSSS method
			Channel	Depending on the country
Data transmission speed/ Modulation			54/48Mbps:64QAM 36/24Mbps:16QAM 18/12Mbps:QPSK 9/6Mbps:BPSK	
IEEE802.11n		Transmission method	Conforming to IEEE802.11n OFDM method	
		Channel	(US)1-11ch (JP/DE)1-13ch	
		Data transmission speed/ Modulation	20MHz : 6.5M / 7.2M / 13M / 14.4M / 19.5M / 21.7M / 26M /28.9M / 39M / 43.3M / 52M / 57.8M / 58.5M / 65M / 72.2M(Auto-sensing)	
Transmission Distance	External antenna			
Aerial power	100m without obstacles (360 degrees)			
Aerial power	802.11b	Max +15 dBm		
Connection mode	802.11g	Max +17 dBm		

		802.11n	Max +17 dBm	
Accessories	Security	Infrastructure, Adhoc		
	Security	IEEE802.11i		
	Protocol (* )	Cryptography	WEP (64/128bit), TKIP(WPA), AES(WPA2)	
		Authorization	Shared Key, Open System, PSK, PEAP, TLS,TTLS, LEAP, EAP-FAST	
	Parameter conditions	TCP/IP,Socket, LPD ( LPR ) , DHCP		
	Default parameters	SSID: Max.32 characters, ASCII (30-39H, 2DH, 41-5AH, 5FH, 61 -7AH). Pre Shared Key (WPA/WPA2): Max.63 characters, ASCII (30-39H, 41-5AH, 61 -7AH). Host Name: Max.32 characters, ASCII (20H,21H,23-7EH).		
Wireless LAN Parameter Setting and Status monitor	Region: U.S.A. IP Address: 192.168.10.200 Subnet Mask: 255.255.255.0 Gateway: 0.0.0.0 ESSID: "WIRELESS PRINTER" Connection mode: Infrastructure Channel: AUTO Socket Port Number: 9100 DHCP: Enable (ON) Host Name: MAC address: xx-xx-xx-xx-xx-xx Pre Shared Key: "00000000" WEP 128: NUL (00H x 13)			

Setting tool conditions	Parameter Setting: Command (Using B-FV4 Setting Tool) Getting via USB, RS-232C or LAN as following parameters. <TCP/IP> 1)DHCP 2)IP address 3)Subnet Mask 4)Gateway 5)Socket Port Number 6)Current IP address 7)Current Subnet Mask 8)Current Gateway <WLAN> 1)Region code 2)Host Name 3)Operating Mode (Network Type) 4)SSID 5)Channel (Only Ad-hoc mode ) 6)Network Authentication(ネットワーク認証) 7)WEP 8)WEP Key Index 9)WEP Key1 10)WEP Key2 11)WEP Key3 12)WEP Key4 13)Encryption Mode(暗号化方式) 14)Pre-Shared Key(共有キー) 15)EAP Authentication Mode(EAP 認証モード) 16)EAP User Name 17)EAP Password 18)Current SSID 19)Current Channel <Other> 1)Default 2)RSSI
Diagnostic print	Refer above condition.
Installation manual (include Safety precautions)	Refer above condition.
Applicable countries / Condition	Mandatory to support field installation. (Dealer option) : EU+EFTA, U.S.A., Canada, Australia/New Zealand, Korea
Applicable printer model as optional products	I4 Series iX4 Series P4 Series D4 Series O4 Series D2 Series