

Integrabus Wifi Eco



User Manual Rev. 01

Table of contents:

1.	Product Overview	2
2.	Default configuration	2
3.	Configuration interface	2
4.	Setting new SSID	3
5.	Setting new Password	5
6.	Setting free wifi network	7
7.	Setting APN	9
8.	Document History	11
	,	



1. Product Overview

IntegraBus Wifi devices provide high quality Internet access (WLAN) in public transport vehicles. The devices are specially designed for use in public transport.

Main features:

- Industrial electronic and mechanical components
- 4G (LTE) Network
- Provide access for up to 50 users
- The unique, Fair Bandwidth technology, helps to avoid downloading bigger amount on data from the same address (i.e. streaming music or movie), but supports preferring the normal browsing (looking websites, mailing functions).

2. Default configuration

The Wifi Eco router device is shipped with the following factory default network settings: SSID: Integrabus

Password: no password

Upon request the devices can be shipped with special configuration settings.

3. Configuration interface

The basic WLAN parameters can be set by the integrated web configuration interface of the device. Follow the next steps to enter configuration surface:

- 1. Power on Wifi Eco router and wait until the Wifi network is available.
- 2. Connect to the Wifi network of the device to be set. Use the factory default or the last configured SSID/password settings.
- 3. On a computer or a smartphone start the web browser and go to **config.integrabus.eu** page or **10.10.11.254** IP address.

Route	ros		IntegraBus
You have o	onnected to a router. Admin	istrative access only. If this device is n	ot in your possession, please contact
your local r	network administrator.		
Login:	user]	
Login: Password:	user •••••	Login	
Login: Password:	user	Login	

Login:

user

Password: Password can be found on product label





4. If the entered login and password is correct the device enters to the configuration page:

4. Setting new SSID

- Enter into the Configuration interface as it is described in point 3. Please note that there are 2 integrated Wifi interface in Wifi Eco device, so you must set the new SSID on both.
- Select Wireless menu and Wireless submenu on top left corner of the page.
 Please check the Wifi Interfaces tab is active.
 Click on wlan1 interface line.

		친 Comment	▲ Name	Туре	Actual MTU	Тх	Rx	Tx Packet (p/ s)	Rx Packet (p/ s)	FP Tx
D	RS		wlan1	Wireless (Atheros AR	1500	66.2 kbps	5.4 kbps	6	4	0 bps
D	S		wlan2	Wireless (Atheros AR	1500	0 bps	0 bps	0	0	0 bps



3. In SSID field enter the new SSID name you want to use, and click on **OK** button.

	Ш	ib	-eco-184329	Tx:1839 bps Rx:69.3 kbps	MebFig
Interfaces					Interface <wlan1></wlan1>
		runnin	g ap not invalid running slave not pass	through	0
		Comment		<u>lli</u>	
		▼ General			
		Name	wlan1		
		MAC Address	78:9A:18:DA:5B:DF		
		Band	2GHz-B/G 🗸		
		Frequency	2412 YMHz		
		SSID	Integrabus		
		Security Profile	default V		
		Registered Clients	2		
		Authenticated Clients	2		
		Tx/Rx Rate	70.5 kbps /	10.3 kbps	
		Tx/Rx Bytes	3713.4 KiB /	1173.8 KiB	
		Tx/Rx Errors	0 /	0	
				500.0 kbps 400.0 kbps	-
		Cancel		Apply OK	
				4	>

After SSID reconfiguration the connection can be lost and your computer or mobile device need to be reconnected!

4. Go back to Wireless submenu page and click on **wlan2** interface line.

M Interfaces	WiFi 1	Interface	es Registration	Security Pro	files						Wireless 1	ables
	2 iten	ns										
			친 Comment	▲ Name	Туре	Actual MTU	тх	Rx	Tx Packet (p/ s)	Rx Packet (p/ s)	FP Tx	F
	D	RS		wlan1	Wireless (Atheros AR	1500	66.2 kbps	5.4 kbps	6	4	0 bps	5
	D	s		wian2	Wireless (Atheros AR	1500	0 bps	0 bps	0	0	0 bps	c
					>							



5. In SSID field enter the new SSID name you want to use, and click on OK button.

	<u>iii</u>	ib-eco-184329 Tx:1839 bps Rx:71.3 kbps	S 🔊 WebFig
Interfaces			Interface <wlan2></wlan2>
		running ap not invalid not running slave not passthrough	0
		✓ General	Align
		Name wlan2	Sniff
		MAC Address C4+48-D1+80+38+1F	Snooper
			Reset Configuration
		Mode ap bridge	Torch
		Band 5GHz-A v	Reset Traffic Counters
		Channel Width 20MHz	
		Frequency 5180 V MHz	
		SSID Integrabus	
		Security Profile default 🗸	
		► NV2	
		Cancel	1
		h	S
			V

After SSID reconfiguration the connection can be lost and your computer or mobile device need to be reconnected!

If you want to protect your wifi network with password, please follow the point 5 or if you prefer your network to be free, follow the point 6.

5. Setting new Password

If you want password protected Wifi network you can set the password in the following way.

- 1. Enter into the Configuration interface as it is described in point 3.
- Select Wireless menu and Wireless submenu on top left corner of the page. Please select Security Profiles tab. Click on A2WPA line.

Wireless Wireless Interfaces	WiFi In	nterface	Registration	Security P	ib-eco-18	34329			Tx:155 bps Rx:2.9 kbps	\$	WebFig E
	2 item	IS	×1 Comment	4 Name	Mode	Authentic	Unicast	Group	WPA2 Pre-		
			. connent	- Hume	Houe	Types	Ciphers	Ciphers	Shared Key		
	-			A2WPA	dynamic keys	WPA2 PSK	aes ccm	aes ccm	******		
	-	*		default	none						
					\checkmark						



3. In WPA Pre-Shared Key field enter the new password you want to use, and click on OK button.

ille Insystem	ib	-eco-184329	Tx:159 bps Rx:2.9 kbps	🔗 WebFig 🔳
			Secu	rity Profile <a2wpa></a2wpa>
				0
	Comment		<i>li</i> .	Remove
	✓ General			
	Name	A2WPA		
	Mode	dynamic keys		
	Authentication Types	WPA PSK WPA2 PSK		
	Unicast Ciphers	aes ccm 🔲 tkip		
	Group Ciphers	aes ccm 🔲 tkip		
	WPA2 Pre-Shared Key			
	Cancel		Арріу ОК	ζ
			\sim	>

4. Go back to Wireless menu and Wireless submenu page and select Wifi Interfaces tab. Click on **wlan1** interface line.

	친 Comme	nt 🔺 Name	Туре	Actual	Тх	Rx	Tx Packet (p/	Rx Packet (p/	FP Tx
D	RS	wlan1	Wireless (Athe	eros ARS 1500	66.2 kbps	5.4 kbps	5)	4	0 bps
D	s	wlan2	Wireless (Athe	eros AR§ 1500	0 bps	0 bps	0	0	0 bps



5. In Security Profile drop down list select A2WPA item, and click on OK button.

Wireless Wireless Unterfaces	<u><u></u></u>	ib	eco-184329		Tx:1578 bps Rx:69.3 kbps	Image: WebFig
Interfaces	-					Interface <wlan1></wlan1>
		runnin	g ap not invalid	running slave n	ot passthrough	0
		Comment				<i>li</i> .
		Name	wlan1			
		MAC Address	78:9A:18:DA:5B:DF			
		Band	2GHz-B/G v			
		Frequency	2412	✓ MHz		
		SSID	Integrabus			
		Security Profile	default 🗸			
		Registered Clients	A2WPA default			
		Authenticated Clients	2			
		Tx/Rx Rate	69.7 kbps		/ 9.1 kbps	
		Tx/Rx Bytes	6.9 MiB		/ 2732.2 КіВ	
		Tx/Rx Errors	0		/ 0	
					500.0 kbps	
			L.L.			
		Cancel			Apply	ок
						5

6. Go back to Wireless menu and Wireless submenu page and **repeat the same process** on **wlan2** interface what you did on wlan1 interface in **point 4 and 5**.

6. Setting free wifi network

To set free wifi network you can disable the password in the following way.

- 1. Enter into the Configuration interface as it is described in point 3.
- 2. Go to Wireless menu and Wireless submenu page and select Wifi Interfaces tab. Click on **wlan1** interface line.

		*1 Comment	A Name	Тупе	Actual	Tx	Pr	Tx Packet (p/	Rx Packet (p/	FR Ty
0201		e comment	a nume	·ype	MTU		5.411	s)	s)	
D	RS		wian1	Wireless (Ather	OS ARY 1500	66.2 Kbps	5.4 kbps	6	4	U Dps
D	S		wlan2	Wireless (Ather	os AR! 1500	0 bps	0 bps	0	0	0 bps



3. In Security Profile drop down list select **default** item, and click on OK button.

↓ ₩ireless ▼ Wireless Interfaces Interfaces	Ш	ib	-eco-184329		Tx:1279 bps Rx:47.2 kbps	n d	WebFig
							Interface <wian1></wian1>
		runnir	ng ap not invalid	running slave not p	assthrough		0
		Comment				///	
		 ✓ General 					
		Name	wlan1				
		MAC Address	78:9A:18:DA:5B:DF				
		Band	2GHz−B/G ✓				
		Frequency	2412	∽ MHz			
		SSID	▲ Integrabus				
		Security Profile	default 🗸				
		Registered Clients	A2WPA default				
		Authenticated Clients	-				
		Tx/Rx Rate	80.0 kbps		/ 12.9 kbps		
		Tx/Rx Bytes	8.5 MiB		/ 3495.2 KiB		
		Tx/Rx Errors	0		/ 0		
					500.0 kbps 400.0 kbps		
		Cancel			Apply		
						\sim	

4. Go back to Wireless submenu page and click on **wlan2** interface line.

Interfaces	WiFi	Interface	s Registration	Security Pro	ofiles						Wireless T	ables
	2 iter	ns										
			친 Comment	▲ Name	Туре	Actual MTU	Тх	Rx	Tx Packet (p/ s)	Rx Packet (p/ s)	FP Tx	F
	D	RS		wlan1	Wireless (Atheros ARS	1500	66.2 kbps	5.4 kbps	6	4	0 bps	5
	D	S		wlan2	Wireless (Atheros ARS	1500	0 bps	0 bps	0	0	0 bps	C
				\sim	>							



5. In Security Profile drop down list select **default** item, and click on OK button.

⊋ Wireless ▼ Wireless	iii.	ib	-eco-184329		Tx:1279 bps Rx:47.2 kbps	🔦 🥐 WebFig 🚍
Interfaces						Interface <wlan1></wlan1>
		runnin	g ap not invalid	running slave	not passthrough	0
		Comment				<i>//</i> /
		✓ General				
		Name	wlan1			
		MAC Address	78:9A:18:DA:5B:DF			
		Band	2GHz−B/G ∨			
		Frequency	2412	✓MHz		
		SSID	▲ Integrabus			
		Security Profile	default 🗸			
		Registered Clients	A2WPA default			
		Authenticated Clients	2			
		Tx/Rx Rate	80.0 kbps		/ 12.9 kbps	
		Tx/Rx Bytes	8.5 MiB		/ 3495.2 KiB	
		Tx/Rx Errors	0		/ 0	
					500.0 kbps	
					400.0 kbps	
		Cancel			Apply	ОК
						\sim

7. Setting APN

To set special APN belonging your SIM card please follow the steps below.

- 1. Enter into the Configuration interface as it is described in point 3.
- 2. Select Interfaces Menu on top left corner of the page. Click on LTE APNs button.

Interfaces								In	terface Li
	LTE APNs	LTE Cell Monitor	LTE Scanner						
	1 item	\mathbf{v}						1	
		Comment	Name	Туре	Тх	Rx	Tx Packet (p/ s)	Rx Packet (p/ s)	FP Tx
		lte1	LTE	0 bps	0 bps	0	0	0 bps	0 bps
				91			-		



3. Click on **actualapn** line.

⊋ Wireless ► Interfaces	<u>ib</u>	ib-eco-184329									🥐 WebFig	
											Inter	face List
	Close	Add New										
	2 items											
	Ži Comment ▲ Name APN IP Type						Use Peer Use Add Network Defau APN Route			User	Passthrough Interface	Passth Addres
	-		actualapn	internet.vodafone.	Auto	yes	no	yes	none		none	
	-		default	ternet	Auto	yes	yes	yes	none		none	
				V								

4. Enter the new APN setting in the APN text field, and press OK button.

← Wireless ► Interfaces	Щ	ib	eco-184329	Tx:160 bps Rx:2.4 kbps	🕎 🥐 WebFig
					LTE APN <actualapn></actualapn>
					0
		Comment		11.	Remove
		Name	actualapn		
		APN	internet.vodafone.net		
		ІР Туре	Auto V		
		Use Peer DNS			
		Use Network APN			
		Add Default Route			
		Default Route Distance	2		
		IPv6 Interface	none v		
		Authentication	none v		
		Passthrough Interface	none v		
		Cancel		Apply	ĸ



8. Document History

rev	History	Date	Author
R01	First release	2024.07.05.	ерарр