

WLAN access point

Extension module for digital displays Operating manual

1 Contact

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2 Legal note

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This operation manual has been prepared with the utmost care. However, we do not accept any liability for possible errors. We always appreciate your suggestions for improvement, corrections, comments and proposals. Please contact us: editing@siebert-group.com

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3 Notes

Important Note



Before connecting the power supply, make sure that one of the supplied rod antennas is attached to the outside of the housing.

Connecting the power supply without the rod antenna connected can damage the remote module.

Network rights

Since the display is an active network device, administrator rights may be required for commissioning. It is therefore advisable to consult the IT administrators responsible for parameterizing of the IP addresses and WLAN settings.

Model designation

These operating instructions apply to Siebert digital displays equipped with a WLAN module with access point mode.

4 Commissioning

For commissioning, you need a PC with a WLAN interface (2.4 GHz) and an activated automatic IP address assignment (DHCP).

The screenshots are taken with Microsoft Windows 10 (17.09) and Microsoft Internet Explorer 11.

With other operating systems and Internet browsers, the screenshots may differ.

Before commissioning the WLAN, make sure that the display is connected to the power supply.

Since the WLAN module provides a separate WLAN in the 2.4 GHz range to which your computer connects during commissioning, no Ethernet cable is required for the connection to the display.

Please also note that each PC can be configured differently. If, contrary to expectations, problems should occur during setup, please contact us.

You may need software for the control of the displays. You will find this on the data carrier included in delivery or on www.siebert-group.com.

Parallel operation with an existing Ethernet network connection or with a WLAN connection via an additional WLAN interface (e.g. USB dongle) is possible since no gateway is given to the PC.





Note

Make sure that you have saved all necessary information (e.g. passwords for existing WLAN connections, IP address, etc.) and that they are reproducible.

During the connection with the display, an existing WLAN connection is interrupted and may have to be re-established manually.



5 WLAN module





LED	Labeling	Meaning
1	PWR	power, voltage
2	ETH	LAN activity
3	USR	without, lights during initialization process
48		WLAN field strength (max. = LED 48 light up)

WLAN module with open cover





6 Establish the WLAN connection

The WLAN of the display has the following designation siebert-display_serial number



To establish a connection with the WLAN of the display, click on the Network icon 🖾 in the task bar.

If the PC is within range of the WLAN of the display, it will be displayed.

If there are several displays with WLAN module within range of the PCs, these are listed. They can be distinguished by their serial number.

siebert-display_84B008AF681C (Co Secured Connect automatically Connect Network & Internet settings Change settings, such as making a connection metered. \$ WiFi Flight mode 20:11 å \square 다)) 🌇 ENG 19/09/2018

Click on the SSID of the WLAN of the display.



If the PC should automatically connect to the display in the future, leave the 'Automatically connect' checkbox checked and click on the 'Connect' button.

Otherwise first deactivate 'Connect automatically' and then click on the 'Connect' button.

(h.	siebert-display_84B008AF681C Secured										
	Enter the network security key										
	···········										
	You can also connect by pressing the button on the router.										
		Next		Cancel							
<u>Netw</u> Chang <i>(ii</i> WiFi	vork & I ge setting:	nternet settin s, such as making 파슬 Flight mode	gs a connec ((၂۰) Mobile	tion metered. hotspot							
		x ^Q ∧ ⊲» ¶	🔥 ENG	20:13 19/09/2018	\Box						

Afterwards you will be asked to enter a network security key. The default key is: siebert-display. Enter the key in the field provided and confirm the process by clicking on 'Next'.

isieber No Int	t-display_84B ternet, secure	008AF681C d						
Prope	erties							
		Disconnect						
<u>Network & Internet settings</u> Change settings, such as making a connection metered.								
(î.	<i>ъ</i> р	(1))						
WiFi	Flight mode	Mobile hotspot						
	x ^R ∧ ¢»)	20:16 ENG 19/09/2018						

Once the network connection is established, it is displayed as the active connection.

Click on the Network icon 💷 in the task bar and then on 'Properties'.

In the window that opens, you can see the properties of the WLAN connection.



← Settings

Isiebert-display_84B008AF681C

Metered connection

If you have a limited data plan and want more control over data usage, make this connection a metered network. Some apps might work differently to reduce data usage when you're connected to this network.

Set as metered connection



IP settings

IP assignment:

Automatic (DHCP)

Edit

Properties

SSID:	siebert-display_84B008AF681C
Protocol:	802.11g
Security type:	WPA2-Personal
Network band:	2.4 GHz
Network channel:	5
IPv6 DNS servers:	fec0:0:0:ffff::1%1 fec0:0:0:ffff::2%1 fec0:0:0:ffff::3%1
IPv4 address:	192.168.88.253
Manufacturer:	Ralink Technology, Corp.
Description:	802.11n USB Wireless LAN Card
Driver version:	5.1.22.0
Physical address (MAC):	E8-4E-06-3E-6F-E3



For security reasons, you should search for the IPv4 address after the entry and check whether there is an address behind it, similar to the one in the graphic. The value of the address after the last dot can be different.

Also check the point IP assignment for security reasons. If you find there the value 'Automatic (DHCP)' you can proceed to chapter 'Login to WLAN module'.

If the IP address was assigned manually on your PC, please contact your IT system administrator.

siebert

7 Settings

Connecting to the WLAN module

To connect to the WLAN module of the display, enter the following URL in the address line of the Internet browser:

http://192.168.88.1

The following window will then open for registration:

Route	r OS v6 .	.42.7						1 V III		
You have co local netwo	nnected to a rk administra	router. Ad	ministrat	tive access onl	y. If this de	evice is not	in your p	ossession,	please contact	you
WohEi										
webrig			<u> </u>							
Login:	pamin		<u>×</u> (Login						
Password:										
			= 82							

Enter the following login data in the windows 'Login' and 'Password':

WebFig Login:

Login:	siebert	×	Login
Password:	siebert		

After successful login, the user interface of the WLAN module opens.

Route	0uterOS v6.42.7 (stable)													
Ttoute														
Interfa	ce I	nterface List Et	hernet										Interface Lis	
Add Ne	w v	Detect Internet												
3 items														
		* Name	Туре	Actual MTU	L2 MTU	Тх	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx	FP Rx	FP Tx Packet	FP Rx Packet	
- D	R	\$3 bridge1	Bridge	1500	1600	32.3 kbps	5.2 kbps	4	5	0 bps	5.2 kbps	0	5	
D	s	ether1	Ethernet	1500	1600	0 bps	0 bps	0	0	0 bps	0 bps	0	0	
D	RS	de wlan1	Wireless (Atheros AR9	1500	1600	32.3 kbps	5.2 kbps	4	5	0 bps	5.2 kbps	0	5	
									-					
	Add Ne 3 items D D	Interface I Add New Image: Comparison of the second secon	RouterOS v6.42.7 (stable) Interface Interface List Et Add New Detect Internet: 3 items A Name D R 42 bridge1 D S 40 ether1 D RS 40 wien1	RoutlerOS vs.4.2.7 (stable) Interface List Ethernet Add New Detect Internet 3 items Type D R 42 bridge1 B S 40 ether1 Ethernet Unreless (Atheros AR0)	RouterOS v6.42.7 (stable) Interface List Ethernet Add New V Detect Internet 3 items Add New V Detect Internet 3 items Add New V Detect Internet 3 items D R 4th orige 1 Bridge 1500 D R 4th orige 1 Bridge 1500 D R 4th orige 1 Bridge 1500 D R 6th orige 1 Bridge 1500 D R 6th orige 1 Bridge 1500	RouterOS v6.427 (gable) Interface List Ethernet Add New Y Detect Internet 3 items Interface List D R 45 bridge1 B S 40 ether1 D R 45 bridge1 B S 40 ether1 D R 55 bridge1	RouterOS vs.4.27 (stable) Interface List Ethernet Add New Detect Internet 3 items D R 62 bridge1 B 4 bridge1 Bridge S • ether1 Ethernet D R • bridge1 Bridge B • ether1 bridge1 1500 1600 2.3 kbps D R • wan1 Wireless (Atheros AR9 1500 1600 2.3 kbps	RouterOS v6.42.7 (stable) Interface List Ethernet Add New Y Detext Internet 3 items 3 items D R 42b bridge1 Bridge 1500 1600 22.3 kbps 5.2 kbps D R 42b bridge1 Bridge 1500 1600 0.0 bps 0 bps D R 49 ether1 Ethernet 1500 1600 22.3 kbps 5.2 kbps D R 49 ether1 Ethernet 1500 1600 22.3 kbps 5.2 kbps	RouterOS v6.4.7. (sable) Interface List Ethernet Add New Y Detext Internet 3 Items Y Detext Internet Add New Y Detext Internet X Type Actual MTU L2 MTU TX Rx Tx Packet (p/s) 3 Items Name Type Actual MTU L2 MTU TX Rx Tx Packet (p/s) D R 42 bridge1 Bridge 1500 1600 22.3 kbps 5.2 kbps 4 D S 4 ether1 Ethernet 1500 1600 32.3 kbps 5.2 kbps 4 D RS W wien1 Wireless (Atheros AR0 1500 1600 32.3 kbps 5.2 kbps 4	RouterOS v6.42.7 (stable) Interface List Ethernet Add New V Detext Internet Add New V Detext Internet 3 Items S A faula MTU L MTU TK Rx To Packet (p/s) R Packet (p/s) D R Date Internet 1500 1600 2.2 kbps 4 5 B 4 Classes 5.2 kbps 4 5 B 5.2 kbps 5.2 kbps 4 5	RouterOS v6.4.27 (gable) Interface List Ethernet Add New V Detect Internet Add New V Detect Internet 3 Internet S 4 Name Type Actual MTU Z MU T X RX Packet (p/s) PT X D R 4 to bridge1 Bridge 1500 1600 3.2 kbps 5.2 kbps 4 5 0 D S 4 S 0 D S 4 5 0 D S 4 S 0 D S A to bridge 1 1000 2.0 kbps 5.2 kbps 4 S 0 bps D RS Wrining Katheros ARI 1500 1600 2.3 kbps <th co<="" td=""><td>RouterOS vs.4.27 (stable) Interface List Ethernet Add New V Detect Internet Add New V Detect Internet 3 Internet 3 Internet Total Attal Attal La Attal Ta Att</td><td>RouterOS vs.4.27 (stable) www.www.www.www.www.www.www.www.www.ww</td></th>	<td>RouterOS vs.4.27 (stable) Interface List Ethernet Add New V Detect Internet Add New V Detect Internet 3 Internet 3 Internet Total Attal Attal La Attal Ta Att</td> <td>RouterOS vs.4.27 (stable) www.www.www.www.www.www.www.www.www.ww</td>	RouterOS vs.4.27 (stable) Interface List Ethernet Add New V Detect Internet Add New V Detect Internet 3 Internet 3 Internet Total Attal Attal La Attal Ta Att	RouterOS vs.4.27 (stable) www.www.www.www.www.www.www.www.www.ww

On the left you see the main menu. After clicking on the desired menu item, you will see the corresponding window in the middle window area.



Now you can make changes.

Name	dhcp_pool0	
Addresses	▼ 192.168.88.10 - 192. ×	•
Next Pool		
Comment		

Incorrect entries are indicated by red field labels (in this case an incorrect entry of the IP pool by spaces before and after the hyphen).

Name	dhcp_pool0
Addresses	▼ 192.168.88.10-1 92.1 × ▲
Next Pool	
Comment	

To unsubscribe from the WLAN module, click on the Logout button <a>[] in the upper right corner.



User Password

Hint

For a higher security the change of the default password is recommended (in delivery status: siebert).

🧊 Wireless	RouterOS v6.42.7 (stable)				
🔚 Interfaces					
🕌 Bridge					
🛫 Switch					
255 IP ►	Change Cancel				
💮 System 🛛 🔻					
Password	Old Password				
📄 Log	Now Password				
🤄 Undo					
🤿 Redo	Confirm Password				
•••• Hide Passwords					
<table-cell-rows> Safe Mode</table-cell-rows>					
End-User License					

To change the user password, click on 'System' in the menu, on 'Password' and enter the current password in the 'Old Password' field.

Enter the new password in the field 'New Password' and repeat this entry in the field 'Confirm Password'.

Then click on the 'Change' button. The window closes automatically and the new password has been saved.



Note

Write down the new password and keep it safe. A lost password may require the WLAN module to be reset to its factory settings.



Network security key



Note

After changing the network security key, the connection to your PC is automatically closed. A new connection must be established and the key must be entered (see chapter Establish WLAN connection).

🧵 Wireless	Rout	erOS	6.42.7 (stable	a						
🗯 Interfaces			orizir (outric							
🎇 Bridge	WiFi I	nterfaces	Registratio	n Connect Lis	st Security Pr	ofiles Char	nnels			
🙄 Switch	·									
🔯 IP 🕨 🕨	Add N	Add New								
💮 System 🛛 🔻										
Password	1 item	n								
E Log			▲ Name	Mode	Authentica Types	Unicast	Group Ciphers	WPA Pre- Shared Key	WPA2 Pre- Shared Key	
K Undo	121		default	dynamic keys	WPA2 PSK	aes com	aes.ccm			
A Redo	-	-	Geradit	aritanic keys	macron	bes cent	des cent			
Hide Passwords	1									
🕈 Safe Mode										
End-User License]									

To change the network security key, click on 'Wireless' in the menu. Select the 'Security Profiles' tab and then click on the list entry 'default'.

The following window opens:

🗊 Wireless	RouterOS v6.42.7 (stable)						
🛲 Interfaces	Kouter 05 vo.42.7 (stable)						
🔓 Bridge							
🙄 Switch							
IP 🕨	OK Cancel Apply Remo	ove					
System 🔻							
Password	default						
Log							
📉 Undo]						
💠 Redo	Name	default					
Hide Passwords	Mode	dynamic keys 🗸					
Safe Mode	Authentication Types						
	Unicast Ciphers	✓aes ccm □tkip					
	Group Ciphers	⊘ aes ccm □tkip					
	WPA Pre-Shared Key						
	WPA2 Pre-Shared Key	••••••••••• MikroTik 00:05:00					
	Supplicant Identity						
	Group Key Update						
	Management Protection	disabled 🗸					
	Management Protection Key						
	Disable DMKID						



Delete the value in the field 'WPA2 Pre-Shared Key' and enter the new network security key in this field.

The key must be at least 8 characters long.



If you want the key to be visible, click on 'Hide Passwords' in the menu.

To save click on 'OK'. The window closes automatically.

The WLAN connection is now disconnected and the Internet browser session will no longer be updated. Therefore close the browser.

Afterwards you can establish a new connection with the WLAN module using the new network security key (see chapter Establish WLAN connection).



Note

Write down the new network security key and keep it safe. A lost key may require the WLAN module to be reset to its factory settings.



WLAN SSID



Note

After changing the SSID, the connection to your PC is automatically closed. A connection setup via the new SSID is required again (see chapter Establish WLAN connection).

Rout	erOS v	6.42.7 (stable)						
WiFi I	nterfaces	Registration	Connect Lis	t Security Pro	ofiles Char	nnels		
Add N	lew							
1 item	n							
		▲ Name	Mode	Authentica Types	Unicast Ciphers	Group Ciphers	WPA Pre- Shared Key	WPA2 Pre- Shared Key
-	*	default	dynamic keys	WPA2 PSK	aes ccm	aes ccm		********
	Rout WiFi I Add N 1 item	RouterOS v WiFi Interfaces Add New 1 item	RouterOS v6.42.7 (stable) WIFI Interfaces Registration Add New 1 Item Add New 4 Name Adefault	RouterOS v6.42.7 (stable) WiFi Interfaces Registration Connect List Add New 1 item • A Name Mode • default dynamic keys	RouterOS v6.42.7 (stable) WiFi Interfaces Registration Connect List Security Production Add New Item Item <td< td=""><td>Registration Connect List Security Profiles Chart Add New 1 1 Item Authentice Unicest</td><td>RouterOS v6.42.7 (stable) WiFi Interfaces Registration Connect List Security Profiles Channels Add New -</td><td>RouterOS v6.42.7 (stable) WiFi Interfaces Registration Connect List Security Profiles Channels Add New -</td></td<>	Registration Connect List Security Profiles Chart Add New 1 1 Item Authentice Unicest	RouterOS v6.42.7 (stable) WiFi Interfaces Registration Connect List Security Profiles Channels Add New -	RouterOS v6.42.7 (stable) WiFi Interfaces Registration Connect List Security Profiles Channels Add New -

To change the SSID (Service Set Identifier), click 'Wireless' in the menu. Select the tab 'WiFi Interfaces' and then click on the List entry 'wlan1'.

🧘 Wireless	RouterOS v6.42.7 (stable)						
🔚 Interfaces							
📲 Bridge							
🛫 Switch							
IP ►	OK Cancel Apply Remov	e					
💮 System 🛛 🔻	- defects						
Password	derauit						
E Log							
🦱 Undo							
Aedo	Name	default					
•••• Hide Passwords	Mode	dynamic keys					
न Safe Mode		WPA PSK WPA2 PSK					
End-User License	Authentication Types	WPA EAP WPA2 EAP					
	Unicast Ciphers	√ aes ccm □tkip					
	Group Ciphers	✓aes ccm □tkip					
	WPA Pre-Shared Key						
	WPA2 Pre-Shared Key	•••••					
	Supplicant Identity	MikroTik					
	Group Key Update	00:05:00					
	Management Protection	disabled 🗸					
	Management Protection Key						
	Disable PMKID						



Delete the value in the field 'SSID' and enter the new SSID in this field.

To save click on 'OK. The window closes automatically.

The WLAN connection is now disconnected and the Internet browser session will no longer be updated. Therefore close the browser.

Afterwards you can establish a new connection with the WLAN module using the new SSID (see chapter Establish WLAN connection).



IP address and DHCP server

The IP address of the WLAN module and the range of IP addresses from which the DHCP server of the WLAN module assigns IP addresses can be changed via the user interface.



Note

Please pay attention to the instructions given in the following example. Otherwise it may not be possible to establish a connection with the WLAN module. This requires resetting the WLAN module to factory settings.

🧘 Wireless	RouterOS v6.42.7 (stable)							
Interfaces	1100100							
😹 Bridge								
🕎 Switch								
255 IP 🔻	Add Nev	v						
Addresses								
DHCP Server	1 item							
Pool			▲ Address	Network	Interface			
💮 System 🕨	- D		🕆 192.168.88.1/24	192.168.88.0	bridge1			
📄 Log								
🤄 Undo								
🔿 Redo								
•••• Hide Passwords								
<table-cell-rows> Safe Mode</table-cell-rows>								
End-User License								

To change the IP address of the WLAN module, click on 'IP' in the menu, then on 'Addresses' and after on the button 'Add New'.

🧘 Wireless	RouterOS v6.42.7 (stable)						
🔚 Interfaces							
🕌 Bridge							
🕎 Switch							
IP V	OK Cancel Apply						
Addresses							
DHCP Server	not invalid						
Pool	Enabled 🗸						
💮 System 🕨 🕨							
📃 Log	Address 192.168.77.1/24 ×						
🔄 Undo	Network 🔻						
🤿 Redo							
•••• Hide Passwords	Interface bridge1						
<table-cell-rows> Safe Mode</table-cell-rows>	Comment						
End-User License							

Delete the value in the field 'Address' and enter the new IP address in CIDR format in this field. Use a private IP address according to RFC1918 for this. In this example: 192.168.77.1/24

To save click on 'OK'. The window closes automatically.

In order for the WLAN module to continue to assign IP addresses, the DHCP server must be set to the corresponding address range.

🧘 Wireless	Route	RouterOS v6 42 7 (stable)				
🔚 Interfaces	rtouter		orizin (ouble)			
📲 Bridge						
🛫 Switch						
IP Y	Add Nev	v				
Addresses						
DHCP Server	1 item					
Pool			Address	Network	Interface	
💮 System 🕨 🕨	- D		🕆 192.168.88.1/24	192.168.88.0	bridge1	
📄 Log						
🤄 Undo						
🤿 Redo						
•••• Hide Passwords						
<table-cell-rows> Safe Mode</table-cell-rows>						
End-User License						

To add a new network, click on 'IP' in the menu and then on 'DHCP Server'. Choose the tab 'Networks and then click on the button 'Add New'.

🤶 Wireless	RouterOS v6 42.7 (stable)
🛲 Interfaces	
🕌 Bridge	
🙄 Switch	
IP V	OK Cancel Apply
Addresses	
DHCP Server	Address 192.168.77.0/24 ×
Pool	
🚱 System 🕨	Gateway
📄 Log	Netmask 🔻
🤄 Undo	
🤿 Redo	
•••• Hide Passwords	DNS Servers 🔻
<table-cell-rows> Safe Mode</table-cell-rows>	Domain 💌
End-User License	

In the field 'Address' enter the new network. In this example: 192.168.77.0/24 To save click on 'OK'. The window closes automatically.

🧘 Wireless	Route	RouterOS v6.42.7 (stable)							
🔚 Interfaces									
📲 Bridge	DHCP	Networks	Leases	Options	Option Sets	Alerts			
🛫 Switch		_							
IP Y	Add Ne	w							
Addresses									
DHCP Server	2 items								
Pool		* Ad	dress		Gateway	DNS	Servers		
🚱 System 🕨 🕨			uress		outenuy	Ditto	Scivers		
📄 Log	-	192.	168.77.0/2	24					
🤄 Undo	-	192.	168.88.0/2	24					
🤿 Redo									
•••• Hide Passwords									
<table-cell-rows> Safe Mode</table-cell-rows>									
End-User License									



The new network is displayed in the network overview.

In the next step, the range of IP addresses from which the DHCP server assigns IP addresses must be defined correspondingly.

🧘 Wireless	RouterO	S v6.42.7 (stable)		
Interfaces				
🕌 Bridge	Pools Us	ed Addresses		
🙄 Switch				
IP V	Add New			
Addresses	-			
DHCP Server	1 item			
Pool		🛦 Name	Addresses	Nex
💮 System 🕨 🕨		🕆 dhcp_pool0	192.168.88.10-192.168.88.254	none
E Log				
🤄 Undo				
🤿 Redo				
•••• Hide Passwords				
<table-cell-rows> Safe Mode</table-cell-rows>				
End-User License				

To change the range of IP addresses, click 'IP' in the menu, then on 'Pool' and after choose the list entry 'dhcp_pool0'.

🧘 Wireless	RouterOS v6.42.7 (stable)					
Interfaces						
🕌 Bridge						
🛫 Switch						
IP V	OK Cancel Apply Remove					
Addresses						
DHCP Server	Name dhcp_pool0					
Pool						
💮 System 🕨	Addresses • 3.77.10-192.108.77.234					
📄 Log	Next Pool 🔺 none 🔽					
🤄 Undo	Comment					
🤿 Redo						
•••• Hide Passwords						
<table-cell-rows> Safe Mode</table-cell-rows>						
End-User License						

In the field 'Addresses' enter the new range of IP addresses. In this example: 192.168.77.0-192.168.77.254

Make sure that the spelling is correct and that no spaces are used.

To save click on 'OK'. The window closes automatically.

🧘 Wireless	Route	rOS	(6.42.7 (stable)		
🔚 Interfaces					
🕌 Bridge	Pools	Used	Addresses		
🕎 Switch		_			
IP V	Add Ne	w			
Addresses	-				
DHCP Server	1 item				
Pool			🛦 Name	Addresses	Nex
💮 System 🕨 🕨	-		🕆 dhcp_pool0	192.168.88.10-192.168.88.254	none
📃 Log					
🤄 Undo					
🤿 Redo					
•••• Hide Passwords					
<table-cell-rows> Safe Mode</table-cell-rows>					
End-User License					

The changed IP address range is displayed in the IP address range overview.

After that end the browser session and disconnect the WLAN connection with the display. Then reconnect your PC to the display via the new IP address. In this example: 192.168.77.1

siebert-display_84B008AF681C No Internet, secured	siebert-display_84B008AF681C Secured
Properties	Connect automatically
Disconnect	Connect
<u>Network & Internet settings</u> Change settings, such as making a connection metered.	<u>Network & Internet settings</u> Change settings, such as making a connection metered.
に い に い に い い に い い い い い い い い い い い	راب) WiFi Flight mode Mobile hotspot
x ^R へ (い) <u>候</u> ENG 20:16 19/09/2018 ワ	x ^Q へ (小)) <i>候</i> ENG 20:26 ロ 19/09/2018 ロ

In the next step, entries in the WLAN module that are no longer required are deleted. (This is not necessary in this example because both the IP address and the network were added to the DHCP server).

Enter the new URL of the WLAN module in the address line of the Internet browser. In this example: http://192.168.77.1.

After the login window will open. Enter the login data in the 'Login' and 'Password' windows. If the login data is in the delivery state, enter the following:

Login:	siebert	Login
Password:	siebert	

🧵 Wireless	RouterOS v6.42.7 (stable)							
🔚 Interfaces								
😹 Bridge	DHCP	Networks	Leases	Options	Option Sets	Alerts		
🛫 Switch		_						
255 IP V	Add Ne	w						
Addresses								
DHCP Server	2 items							
Pool		* 0.0	drose		Gateway	DNS	Servers	
🍪 System 🕨 🕨			iui ess		Gateway	DNS	Servers	
📃 Log	-	192.	168.77.0/2	24				
🦱 Undo	-	192.	168.88.0/2	24				
🤿 Redo								
•••• Hide Passwords								
<table-cell-rows> Safe Mode</table-cell-rows>								
End-User License								

To delete unnecessary networks, click on 'IP' in the menu and after on 'DHCP Server'. Choose the tab 'Networks' and after click the delete button '-' in the line with the entry that you do not need. In this example: 192.168.88.0/24

🤶 Wireless	RouterOS v6.42.7 (stable)						
🛲 Interfaces	itto utcor t						
😹 Bridge							
🛫 Switch		1					
255 IP V	Add New	J					
Addresses							
DHCP Server	2 items						
Pool		▲ Address	Network	Interface			
💮 System 🕨	- D	🕆 192.168.77.1/24	192.168.77.0	bridge1			
E Log	- D	🕆 192.168.88.1/24	192.168.88.0	bridge1			
🤄 Undo							
🤿 Redo							
•••• Hide Passwords							
<table-cell-rows> Safe Mode</table-cell-rows>							
End-User License							

To delete the unneeded IP address of the WLAN module, click on 'IP' in the menu, then on 'Addresses' and after click the delete button '-' in the line with the entry that you do not need. In this example: 192.168.88.1/24

To ensure that the DHCP server of the WLAN module assigns all components installed in the display an IP address from the newly defined range, wait at least 10 minutes. Alternatively, you can disconnect the display from the power supply for approx. 10 seconds.

For configuration of the display see operating instructions.



8 Resetting the WLAN module to factory settings

To reset the WLAN module to factory settings, the cover of the WLAN module must be removed.



To do this, simultaneously hold down the release button and pull the cover slightly downwards.

Next, remove the network cable from the RJ45 network connector. Then hold down the RESET switch with a pointed object (e.g. bent paper clip or pen) and simultaneously plug the network cable back into the network socket.

Keep the RESET switch pressed until the LEDs 'USR' (LED 3) and the WLAN field strength (LED 4...8) are flashing.



After that the WLAN module will restart with factory settings.