



EM-SCANPHONE

Options W & WLG

10/2021 - EN





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1 COMPATIBLE DEVICES

February 2021

Rohde & Schwarz
FPC1000
ESU8-EMI Test Receiver
Anritsu
MS2090A
MS2036C/37C/38C
MS2667C
Agilent / Keysight
E7402A





2 INTRODUCTION

The frequency option allows you to establish a connection between the EM-Scanphone and a spectrum analyzer (or oscilloscope) via a Wi-Fi connection.

If you have a spectrum analyzer with the Wi-Fi option, e.g. the FPC1500 from Rohde & Schwarz or the MS2090A from Anritsu, then it is possible to directly establish a Wi-Fi link between the EM-Scanphone and the spectrum analyzer. (Figure 01)

Option W





If your analyzer does not have any Wi-Fi option, then it is possible to connect it to a fixed Access Point (AP) via the LAN socket or via a GPIB / LAN interface (Figure 02).

Option WLG









3 Setup of the W option

W Option	In the box
	Activation card







3.1 CREATION OF A WI-FI ACCESS POINT ON THE SMARTPHONE

You can change the name of the Hotspot. Example here: "EM-Scanphone2"

















3.2 ACTIVATE THE WI-FI CONNECTION OF THE SPECTRUM ANALYZER

Example with the R&S FPC1500.

(makeria)		-		BW Sweep Tace Lines
UAN .	MMC Address	00.90 s8 1177 e1		
		or ·		Meas Made Smap Recal
		192.568.0.59		
		215.215.215.0		7 1 2 2 2
		****		4 5 6 MR-
WIFE		General .	Andalad Option	
		00-23-47-0177-24		
		Vine		tec 421 🗸 🗸 🗸
Date and Time		#2/EJ/2029		E
	Set Time	1852-65	14	
				6
				Not +30 film
	•			-

With the Connect button, search for the EM-Scanphone2 Wi-Fi network.

🚸 Spectrum Analyzer - Spectrum		4	2/2/2021	8:57	Config
Hardware	BNC	Trigger Input			Overview
	Detected Accessory				Instrument
LAN	MAC Address	00-90-b8-1f-f7-e1			
	DHCP	Off			User Preference
	IP Address	192.168.0.59			
	Subnet Mask	255.255.255.0			HW/SW Info
	Gateway	0.0.0			
WiFi	Connect to WiFi Network	Connect			Installed Options
	Name	-			
	IP Address				
	MAC Address	00-23-a7-cf-77-24			
	Regulatory Information	Show			
Date and Time	Set Date	02/02/2021			
	Set Time	08:57:45			Exit











Connect the spectrum analyzer to the access point of the EM-Scanphone.

Note the IP number (here: 192.168.43.52).





3.3 LAUNCH THE CONSOLE APPLICATION



Press Reload several times to find the IP corresponding to your device.

In our example, we are looking for the IP number 192.168.43.52.









With the console, we can check that the connection is established.

Close the console.





3.4 ACTIVATION OF THE WI-FI OPTION





The activation card will enable the W & WLG options to be activated and also to hang the probe.





3.5 START THE EM-SCANPHONE APPLICATION



When you connect the USB socket, the application should start.

If not, it must be started manually.



Reload to find the analyzer IP.

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User manual EM-Scanphone V2 10-2021







You have now connected the analyzer to the EM-Scanphone.

You can start scanning.

See the EM-Scanphone user manual for further information





4 Setup of the WLG option



4.1 ACCESS POINT CONFIGURATION



D-Link DAP-1665

	Name	Password
Wi-Fi 2.4GHz	Dlink-LXD	0000000
Wi-Fi 5GHz	Dlink-LXD-5GHz	0000000





4.2 CONNECTION BETWEEN THE ANALYZER AND THE ACCESS POINT

LAN Only

In the network configuration menu of your analyzer, enter the following parameters: IP.FIX



Example with R&S FPC1000 and ESU







LAN with GPIB Interface

The analyzer GPIB Address must be 18







4.3 CONNECT THE SMARTPHONE TO THE D-LINK ACCESS POINT









4.4 LAUNCH THE CONSOLE APPLICATION



4.5 GO TO THE SECTION 2.4 (ACTIVATION OF THE WI-FI OPTION)











LUXONDES

Ruche des 2 lys, Zone EuroLys, Avenue de l'Europe

contact@luxondes.com

CE



