### **Technical Specifications**

SSID: Wifi327 IP: 192.168.0.10 Subnet: 255.255.255.0 Port: 35000 Range: 50 ft (Line of sight) Antenna: Internal Power Consumption: 1 Watts (With Power Switch) Wifi Standard: 802.11a/b/g Operating Temperature: -15 to 100 Deg Celsius Physical Dimensions: 3.46 x 1.85 x 0.98 inches

#### Description

**WIFI327** is capable of communicating with vehicles which adopt following protocols:

ISO 9141 ISO 11898(aka. CAN) ISO 14230(aka. KWP2000) ISO 15765(aka. CAN)

**WIFI327** is able to detect and interpret these protocols automatically. It also provides support for high speed communications and a low power sleep mode. It use AT commands to communicate with a host device (PC, notebook, iPhone, iPod touch, iPad and so on). There are plenty of software packages available, which are fully compatible with **WIFI327**. Some of them have pretty useful features, such as engine running parameters monitoring, DTC reading and clearing, MPG meter, etc. You can even write your own software on a specified hardware platform if you wish, because the AT commands are fully documented and very well explained. **WIFI327** is measuring only 2.7 x 1.25x 0.9 inches, and it comes attached with a 6 ft OBDII cable for easy installation. It also comes included with a power switch built-in to prevent the need for having to constantly disconnect your unit from the OBDII port. **It is compatible with 1996 and later vehicles**. Connecting to your iPhone / iPod touch /iPad is made by WIFI connection in adHoc mode and Infra mode.

Elder OBD compatible vehicles has a sticker indicates that the vehicle is OBD compatible. Model year 1996 and newer vehicles are compliant by default, and will not have this sticker.

Following are some of the parameters which could be read from the vehicle.

Vehicle Speed RPM Fuel Consumption\* Engine Coolant Temp Fuel Pressure Calculated Engine Load Throttle Position Intake Manifold Pressure Air Intake Temp Timing Advance Mass Air Flow Fuel Level Barometric Pressure EVAP System Vapor Pressure Fuel Trim

\*note: Your vehicle may not support all above parameters. How many parameters you can get is depended on the vehicle manufacturer's implementation.

#### **Vehicles supported**

Our device works on all 1996 to 2010 cars and light trucks sold in the United States, including:

Acura	Daihatsu	Isuzu	Mercedes	Porsche	Smart
Alfa Romeo	Daimler	Jaguar	Mercury	Regal	Subaru
Ariel Atom	Dodge	Јеер	MG	Renault	Suzuki
Aston Martin	Ferrari	Kia	Mini	Rolls-Royce	Tesla
Audi	Fiat	Lamborghini	Mitsubishi	Roush	Toyota
Bentley	Ford	Lancia	Nissan	Rover	Triumph
BMW	Geo	Land Rover	Oldsmobile	Saab	TVR
Buick	GMC	Lexus	Opel	Saleen	Vauxhall
Cadillac	Holden	Lincoln	Pagani	Saturn	Volkswagen
Chevrolet	Honda	Lotus	Panoz	Seat	Volvo
Chrysler	Hummer	Maserati	Peugeot	Scion	Yugo
Citroen	Hyundai	Mazda	Plymouth	Shelby	
Daewoo	Infiniti	McLaren	Pontiac	Skoda	

Some 1994 and 1995 models are also supported. To see if your vehicle is compliant, pop the hood and look for this sticker:

VEHICLE EN	ISSION CONTR		MATION	
	ENGINE FAMILY EI DISPLACEMENT	FN2.8YBT2BA 2.8L	OBD II CERTIFIED	
motor co, inc.	THIS VEHICLE CONFO OF CALIFORNIA REGI 1997 MODEL YEAR N	ULATIONS APPL	ICABLE TO	OBDII
TUNE-UP CONDITIO	MANUAL FOR ADDITIO NS: NORMAL OPERATIN COOLING FAN OFF, TR	G ENGINE TEN	PERATURE,	CERTIFIED
EXHAUST EMIS CERTIFICATIO IN-USE	SSIONS STANDARDS N	STANDARD CA TLEV TLEV INTERME		
SPARK PLUG TYPE NGK BPRE-11 GAP: 1.1mm	CATALYST	EFN2.81	/BT2BA	

Compatible Software and Features:

What features you can have depended on what software you install on iPhone /iPod touch /iPad/ PC. There are a lot of commercial or free software. The features of the software differ from one another. User should choose his own software by his preference. For more details about the software, please consult the software vendors.

You can log on to the apple application store to get your commercial/free software.

There is a freeware in the CD-ROM comes along with the device. You can use this piece of software to config and test the **WIFI327.** 

After the installation of ScanMasterELM\_DEMO, there would be a shortcut on the desktop.



You need to config your PC or cellphone before you can use this software.

For example, on a PC you should follow the steps shown in the pictures below:





General Wireless Networks Advanced				
Connect using:				
TP-LINK 11b/g Wireless Adapter Configure				
This connection uses the following items:				
🗹 📮 QoS Packet Scheduler 📃				
DDK PACKET Protocol				
Internet Protocol (TCP/IP)				
Install Uninstall Properties				
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
Show icon in notification area when connected  Notify me when this connection has limited or no connectivity				
OK Cancel				

Internet Protocol (TCP/IP) Properties	<u>?</u> ×
General	
You can get IP settings assigned automatically if your network support this capability. Otherwise, you need to ask your network administrator the appropriate IP settings.	
O Obtain an IP address automatically	
Use the following IP address:	
IP address: [192.168.0.11]	
Subnet mask: 255 . 255 . 0	
Default gateway:	
C Obtain DNS server address automatically	
☐ Use the following DNS server addresses:	
Preferred DNS server:	
Alternate DNS server:	
Advance	d
OK Ca	ancel

IP address setting.

IP: 192.168.0.11~254 Subent mask: 255.255.255.0 After this, click OK. You can find the Wifi327 device in the window shown below.



Click **Connect** to connect your PC to Wifi327.

Network Tasks	Choose a wireless network
🛃 Refresh network list	Click an item in the list below to connect to a wireless network in range or to get more information.
Set up a wireless network for a home or small office	((p)) TP-LINK Manual 🛠 🗖
Related Tasks Wireles	s Network Connection
Learn about wireles: networking	all!
preferred networks	wait while Windows connects to the 'WiFiOBD' network.
Change advanced settings	g for network to be ready Cancel
	C Security-enabled wireless network
	((p)) CHUANGSHENG
	WiFi+OBD On Demand 👷
	Disconnect



Now the configuration of your PC is done. You can start to use the software.

## Usage of the ScanMaster-ELM:

Double-click the ScanMaster-ELM DEMO icon to start it.

You may need to config it as shown below:

ScanMaster-ELM - DEMO	_ 🗆 X
	ID Config   🗇 Power   🔀 Oxygen Sensors
Log	
Options     X       Communication     Protocol     Language     General     PIDs     Graph     Ski ( )       Interface     Type     VLAN     V       IPAddress     I     I     I       I32.168.0.10     Port     I     I       Port     I     I     I       IOK     Cancel	
Connect Disconnect Alf	
Port: - M Interface: ECU: Www.wgso	ft.de

Click the **WLAN** in the drop list which resides in the tab named **Communication** 

Enter 192.168.0.10 as the IP address and 35000 as the port number. Click **OK**. Now the software is ready to use.

These are what you'll see when the software is running:

ScanMaster-ELM - DEMO File Options Tools Help	
	🗄 Live Data Meter 🛛 🛄 Live Data Graph 🛛 🌮 PID Config 🗌 🥪 Power 🗍
	Live Data Hield I in Live Data Graph I In Coning ( V Porei Trouble Codes 6 Preze Frames 8 3 Oxygen Sensors 1
	Log
[14:05:05.031] ScanMaster-ELM - DEMO v2.0	
✓ [14:05:05.031] !!!! DEMO VERSION !!!!      ✓ [14:05:05.046] Disconnected	
<ul> <li>Interface</li> <li>Interface</li> </ul>	
✓ [14:05:05.078] 192.168.0.10:35000 - Connected	
[14:05:06.484] ELM327 Chip detected     [14:05:06.484]	
<ul> <li>[14:05:06.500] Interface Connected</li> </ul>	
1 [14:05:06.687] Interface Type: OBDII to RS232 Interpreter	
14:05:06.703] Interface Version: ELM327 v1.4     14:05:06.781] Car battery voltage: 9.9V	
<ul> <li>I [14:05:06.984] Connection Protocol: Protocol not known</li> </ul>	
↓ [14:05:07.000] Please wait for connection	
<ul> <li>Î [14:05:08.078] ECU detected: \$10 - Engine</li> </ul>	
[14:05:08.187] ECU Connected> AUTO, SAE J1850 PWM	
Connect Disconnect	Alfa Opel
Port: WLAN 🛄 Interface: 🛄 ECU:	www.wgsoft.de
ScanMaster-ELM - DEMO	
le Options Tools Help	
2 😜 🗈 📖 🔀 😫 🖺 🖓 🖿 🏮 🕕 🕼	
😳 Monitored Test Results   🎂 Actuator   🗐 Live Data Grid   🖪	🗈 Live Data Meter 丨 📖 Live Data Graph 📔 😰 PID Config 🗍 🧼 Power
😚 Start 📔 🗴 Vehicle Info 🛛 🗹 System Status	Trouble Codes
Diagnostic Trouble C	Codes (Mode 03, 07, 0A)
Description	
Stored Diagnostic Trouble Codes (DTC) (Mode 03)	
Pending Diagnostic Trouble Codes (DTC) (Mode 07)	
No Trouble Codes	
Permanent Diagnostic Trouble Codes (DTC) (Mode 0A)	
Permanent Diagnostic Trouble Codes (DTC) (Mode 0A)     Mo Trouble Codes	
No Trouble Codes	
	Manufacturer Generic 💌
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Read       Clear         t:       WLAN       Interface:       ECU:         t:       WLAN       Interface:       ECU:         conHaster-ELH - DEMO       Options Tools Help         Image: Solution of the temp       Image: Solution of the temp         Image: Solution of the temp       Image: Solution of the temp         Image: Solution of the temp       Image: Solution of temp         Image: Solution of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of the temp         Image: Number of the temp       Image: Solution of temp         Image: Number of temp       Image:	Www.wgsoft.de
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Read       Clear         Read       Clear         Wahn       Interface:         ECU:       Contractor-ELM - DEMO         Options       Tools Help	
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Read       Clear         t:       WLAN       Interface:       ECU:         canhlaster:EL4 = DEHO       Options       Touble Codes         Options       Touble Code       System Status         Start       Vehicle Info       System Status         Monitored Test Results       Actuator       Live Data Grid         Start       Vehicle Info       System Status         Description       OBD Type       Status         Continuous Honitoring tests       Comproments         Constructure Honitoring tests       Muffre         Comprometer System       Secondary Ar System         ACS System Refligerant       Oxyopen Sensor         Oxyopen Sensor       Oxyopen Sensor         AVES System Status       Interface:         If Cell System Status       Interface:         AVES System Status       Interface:         If Coll System Status       Interface:         If Fuel	www.wgsoft.de       Live Data Meter     Image: Complete in the supported in the support is supported in the support in t
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Read       Clear         t       WLAN       interface:         t       WLAN       interface:         contraster=EL14       DEtA         Options       Tools         pitons       Tools         *       *         *	www.wgsoft.de       Live Data Meter     Image: Complete complete       Trouble Codes     Freeze Frames       Complete     Supported       Supported     Complete       Supported     Complete       Not Supported     Not Complete       Suported     Not Complete       Suported     Not Complete       Suported     Not Complete       Suported     Not Complete       DEMO     Not Reported
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Interview ScanMaster-ELM - DEMO	×
File Options Tools Help	
] 🍠 😜 🖭 📖 🌄 😫  🖀 📮 🖿 🕘 🌒 🗣	
	Trouble Codes 6 Freeze Frames 6 3 Oxygen Sensors 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Live Data Met	ter (Mode 01)
OC - Engine RPM	05 - Engine Coolant Temperature
0 rpm	-40 °C
10 - Air Flow Rate	0D - Vehicle Speed
DEMO g/s	DEMO km/h
Read Stop	
Port: WLAN 🗖 Interface: 🗖 ECU:	www.wgsoft.de

Note: This piece of software is a demo version. It only provides some basic features. If you want all the features, you can buy it from <u>http://www.wgsoft.de</u>

## Using Iphone 4&IPAD&IPOD software setting:

Note: After you get the applications, you will have a detailed user manual, which is provided by the application venders,

Here are a few examples to config the application.

You need to change the WIFI settings(IP address and net mask) of your **Iphone 4/IPAD/IPOD** before you try to connect your device to **WIFI327**.

Here is a step-by-step example:

Click Settings ->General->Network

Pad 🗢	15:24	
Settings	General	-
WI-Fi WIFIOBD	About	>
Brightness & Wallpaper	Sounds	,
Picture Frame	Network	,
General	Bluetooth	C HO
Mail, Contacts, Calendars	Location Services	ON

Select Static, change the IP address to 192.168.0.11 (any value between 192.168.0.11~192.168.0.254 will work)

Pad 🙃		15:22		54%
Settings		WI-FI Networks	WIFIOBD	-
🛜 Wi-Fi V	VIFIOBD			
Notifications	On		Forget this Netwo	rk
Brightness & Wallpap	er	IP Address		$ \longrightarrow $
Picture Frame		DHCP	BootP	Static
General		(in Address	6	192.168.0.11
Mail, Contacts, Calend	tare	IP Address		255,255,255.0
		Subnet Mask	× ر	255.255.255.0
Safari		Router		
iPod		DNS		
Video		Search Dom	ains	
Photos		HTTP Proxy		
Store		Off	Manual	Auto
Apps				
iBooks		URL		

Scan for the Wifi327 device, and join the network.

iPad 📀	15:22	54% 🔳		
Settings	Wi-Fi Netv	Wi-Fi Networks		
🛜 Wi-Fi WIFIOE	BD	1		
Notifications	Dn Wi-Fi	ON		
🙀 Brightness & Wallpaper	Choose a Network			
Picture Frame	belkin.4c87			
General	СВТ	₽ ↔ 📀		
Mail, Contacts, Calendars	ChinaNet-qzDw	<b>₽ ~ ()</b>		
Mafari	szzh888	₽ 주 📀		
iPod	✓ WIFIOBD	<b>∻ ()</b>		
Video	Other	>		
👷 Photos	Ask to Join Networks	ON		
Store	Known networks will be joine	ed automatically. If no		
Apps	known networks are availat before joining a n	ale, you will be asked ew network.		
🔲 iBooks				

#### You may need to config the software before you can use it. Let's take **DashCommand** as an example



After start, go to the page named **Settings** 

Menu Setti	ngs
General	
Startup video	ON
Start in Dashboards	ON
Show Status Bar	ON
Enable Demo mode	ON
Loop playback	ON
Dashboards	
Tuxedo A Mobile WS1 Landscape	,
Download from DashXL.net	>
Visit DashXL.net	>
Connection	
Auto connect	ON
OBD-II interface type	>
Aux input type None	>
Aux input only	OFF
etup	
Date & time	>
Currency	* >
Units	>
irameters	
Persistent PIDs	

Change the settings according to the picture: Auto connect: **ON** OBD-II Interface Type: **ELM** 

Save the settings and you can start to use it.

These are what you'll see when the software is running:





Menu	Data Logging	Edit
Engine RPM		0 rpm
Vehicle Speed Sensor		0 mph 0 km/h
Forward Acceleration		-0.01 Gs
Lateral Acceleration		0.00 Gs
Vehicle Roll		-0*
Vehicle Pitch		-0*
SAE.PERMANENT_DTC		NO DATA
Number of emission-related DTCs stored in this EC	U	0
Malfunction Indicator Lamp (MIL) Status		Off
Oxygen Sensor Location Bank 1 - Sensor 1		Present
Oxygen Sensor Short Term Fuel Trim Bank 1 - Sen	sor 1	99.2 %

Menu		Diagno	ostics
Store	d Codes		
P0705			
Transn	nission Range Sensor	"A" Circuit (PRNDL	- Input)
Pendi	ing Codes		
No per	iding codes found.		
Perm	anent Codes		
No pe	rmanent codes found.		A REAL PROPERTY AND A REAL
	● 2:18 PM ►		2:41 PM
4719 <sup>rpm</sup>	77	mph	<ul> <li>◆ 17.4 mpg - 20.4 mpg</li> <li>40</li></ul>
	SPEED & RPM	1	▶20
1.5 1.0 0.5 0.0 -0.5 -1.0	5 x100 4 3 2 1	5 x100 4 3 2 1	0
-1.5	0	0	FUEL LEVEL RANGE
+ <b>0.3</b>	<b>217</b>	<b>255</b>	• <b>0.4</b> gal/h 0 1 2 3 4
• ACCEL	POWER	TORQUE	FUEL FLOW
		à r	

Here are the instructions to config **Rev for iPhone / iPod Touch** 

Start the application and enter the **Global Settings** page, select KiWi Wifi as your hardware device. Click **Custom**, enter 192.168.0.10 as the IP address and 35000 as the port number.

Her	dware	Calibrati	on T	hemes
<b>5</b> 0100	t your h	ardwara dai	dee:	
ŀ	Kiwi W	11		
Kiv	vi Wifi 4	MFD		
Ein	nCan-W	/LAN		
Ein	nCan-W	/LAN Leg	acy	
OE	DKey			
Cue	tom (192.1	68.0.10: 3500	0)	0
_				





Home	Vehicle	Profile	_
Identity	Weight	Mount	PIDs
Performan	ce Air/I	Fuel	Engine
Sp	eed	RP	M
W	нр	Tore	Ine
	cc.	Thro	ttle
Lat.	Accel.	Fwd.	Accel.

You don't need to config **SpeedPort**, just run it after you have it installed on your device.





# **Configuration Wifi327 IP and Port:**

Usb line inserted in wifi327 usb port. Open Wifi327ConfigToolV1.1.1.exe soft.

		Wifi327 C V1.1.	onfig Tool 1.exe		
🛃 Wifi327 Configuration t	ool ¥1.1.1				×
Wifi 3	27	•)))	Lan	guage: Engl	ish 💌
Property configuration					
IP Address	•	• •			
Subnet Mask		· ·	Channel		
Gateway			Listening port		
Wifi mode					
C Ad-Hoc Mode			AP name(SSID)		
		Ad-hoo	: node name(ESSID)		
Default Config		R	ead Config	Save	e Config
					Exit

Click on the ReadConfig button, Click the ok button.

🦂 Wifi327 Configuration too	d ¥1.1.1			X
Wifi 32	27 •))	Lan	guage: English	•
Property configuration				_
IP Address	192.168.0.10			
Subnet Mask	255 .255 .255 . 0	Channel	1	
Gateway	192.168.0.1	Listening port	35000	
Wifi mode C AP Mode(INFRA)		AD(CCID)	Luffeen	
Ad-Hoc Mode	Ad-hi	AP name(SSID)	Wifi327	
			THINE?	
Default Config		Read Config	Save Config	
Reading device info success.			Exit	

Modify the IP address and other, then click on the SaveConfig key to save. Click yes button.

🦂 Wifi327 Configuration t	ool ¥1.1.1		×
Wifi 3	27 🜒	Lang	uage: English
Property configuration	192.168.0.110		
Subnet Mask	255.255.255.0	Channel	
Gateway	192.168.0.1	Listening port	35000
Wifi mode C AP Mode(INFI A) C Ad-Hoc Mode	Ad-hoc n	AP name(SSID) ode name(ESSID)	wifi327 Wifi327
Default Config	Rea	d Config	Save Config
Reading device info success.			Exit

🛃 Wifi327 Configuration t	ool ¥1.1.1		x
Wifi 3	27 🔌	Lan	guage: English
Property configuration			
IP Address	192.168.0.110		
Subnet Mask	255 .255 .255 . 0	Channel	1
Gateway	192.168.0.1	Listening port	35000
Wifi mode © AP Mode(INFRA)		AP name(SSID)	Wifi327
C Ad-Hoc Mode	Ad-hoc	node name(ESSID)	Wifi327
Default Config	Re	ead Config	Save Config
Save config success			Exit

Configuration success, pull out the usb line.

When Use Infra mode. Modify wifi mode, choose AP Mode(INFRA), Changes the AP name(SSID) to Router name.

Wifi327 Configuration	tool ¥1.1.1		2
Wifi 3	27 •))	Langua	ige: English
Property configuration —			
IP Address	192.168.0.10		
Subnet Mask	255.255.255.0	Channel	1
Gateway	192.168.0.1	Listening port	35000
Wifi mode AP Mode(INFRA)     C Ad-Hoc Mode		AP name(SSID)	P-Link
	Ad-hoc	node name(ESSID)	Vifi327
Default Config	Re	ad Config	Save Config
ading device info success.			Exit

Then click the SaveConfig button.change computer links for the router. Ensure the computer Ip range is IP: 192.168.0.11~254 Subent mask: 255.255.255.0