



Telemetry Manual with Bosch System



TS124G

PRODUCT DESCRIPTION

TS124G is a 4G device used to send telemetry data in real time. It allows data transmission to one or more connected PCs and, if covered by 3G/4G Network, the transmission occurs in any place. Regarding data receiving, only an Internet connection is necessary.

Thanks to this kind of data transmission, transmitters and other additional systems are no longer necessary.

Furthermore, the system is compatible with all Bosch and Motec devices and it is possible to connect it to any different logger if provided with RS232 data transmission.



TABLE OF CONTENTS

PRO	DUCT DESCRIPTION	2
1	HARDWARE REQUIRED	5
2	HOW TO START	6
3	PIN OUT	7
4	SYSTEM LAYOUT	8
5	SIM CARD	9
6	ANTENNAS	9
7 LE	D STATUS	10
8 R A	CECON CONFIGURATION	11
8.	1 SPECIAL CHANNELS	13
8.2	2 CHANNELS IN TELEMETRY	15
8.3	3 RACECON CONFIGURATION CHECK	17
9	POWERONBRIDGE CONFIGURATION	19
9.1	1 New Car	19
9.2	2 CAR CONFIGURE	
9.3	3 CAR CHECK	
9.4	4 MY CAR	27
10	WD SERVER CONFIGURATION	
10	0.1 Add New Cars	30
10	0.3 RECEIVING DATA	
11	WINDARAB CONFIGURATION	
12	MODULE UPDATE	
13	UTILITY	
14	OPTIONAL UPGRADE	

• • •

15	POWERONBRIDGE ERROR LIST
15.1	SECTION "STATUS" ERRORS
15.2	"CHECK CAR" SCREEN ERRORS
15.3	"Popup" Errors

1 Hardware Required

CAR:

- Modem TS124G
- SimCard with enabled internet connection
- Car wiring harness

- Antenna

PIT:

- Internet connection

Software Bosch

. . .

Bosch System is composed by two software:

WDServer: used for data reception

Download v203005:

<u>Wdserver</u>

WinDarab: used for data visualization

Download v704069:

<u>WinDarab</u>

Download page:

Download Page



2 How to start

Initial system configuration:

1) Buy a qualified Internet traffic Sim card (see Sim Card) and insert it in a mobile phone in order to verify its mode of operation and remove the PIN Code request (verify this by switching off and on the mobile phone)

2) In RaceCon Configuration enable the transmission data in telemetry (see RaceCon Configuration)

3) Install these three software:

-PowerOnBridge (download it here t1.powerontelemetry.it)

-WDServer and WinDarab

4) Start PowerOnBridge and configure it (See PowerOnBridge Configuration)

5) Once the Sim Card is inserted and the telemetry turned on, connect to the module wireless network and carry on with the APN configuration depending on the telephone operator (see Configure Car)

6) If all has been configured correctly, the green led turns on (it indicates that the module is connected to Internet) and the orange-one (it indicates that the module is receiving data from the logger).

7) Open WDServer and proceed with the configuration (see WDServer Configuration)

8) Start WinDarab and proceed with the configuration (see WinDarab Configuration), now data in telemetry can be seen.



3 Pin Out

Connector	AS008-35PN
Pin	
1	+12V
2	GND
3	RS232 RX (telemetry side)
4	RS232 TX (telemetry side)
5	GND
6	nc
Name	Main
Connector	SMA receptacle
Name	Div
Connector	SMA receptacle

...



www.poweron.it



5 Sim Card

Sim of any provider, unless it has an enabled internet connection, can be used.

Roaming internet, if enabled by the internet navigation contract, can be used.

Be sure of disabling the pin code of the sim card.

It is necessary to use a MINI-SIM or smaller sizes with an adapter.

6 Antennas

The telemetry modules TS124G have two antenna connectors, **Main** and **Diversity** (Div).

An antenna must always be connected to **Main** connector in order to make the module work.

The connection of a second antenna to the **Div** connector is optional; connecting the second antenna, the reception gets improved since its signal is linked to the other reducing interferences.



7 Led Status





If this led is on, the telemetry module is powered

LED WAN (green)

It is permanent when it is trying to connect to a Network.

It flashes when it is accurately connected to a Network.

!!ATTENTION!!: if the green led flashes it does not mean that it is ready to broadcast data to the server but it means that it has been able to connect to the right operator network. This led represents an help in order to understand if the right APN has been inserted in the modem configuration (see chapter APN). Even if the Sim card has got no credit, this led flashes in any case because it is connected to the network



LED DAT (yellow)

The led flashes with a frequency in the amount of the received data quantity



LED SYS (blue)

It turns on during the system initialization



8 RaceCon Configuration

Race Mode	Turn right 90°	Show grid					
us Mode	> Turn 180°	Snap to grid					
	create a new relen	ieu y minu					Toobox
New Project	Set the channels	and properties for the new FM40.				^	Devices
Fuel	Set the specific of	anners for the telemetry. You may also change the telemetry secon	ys.				👹 MS6
C60	General Settings						MS7
Measurement C	WDServer folder:	C:\Users\Alex\Documents\RaceCon Projects					MS24
	Project key:	04d2		hex			資 MS25 Sport
	Baudrate:	115200	~	bps			PDB
	Pause:	5		2			Bypass ECU
	Max channels:	512	4				Custom ECU
							PBX90
	Channel settings						 Data logging systems
	Distance channel:						E BT60
	Eaptrigger	_lapdist_dls	~			C50	
	Lap number channe	e e e e e e e e e e e e e e e e e e e					C60-D
	🐺 🔁 lapctr		~			65	
	Lap fuel channel:					FM40	
	Fuel_fuella	apold_dls		~			MEL CO
	Las fins abanali			1000			- CAN modules
	Lap time channel.	lantimedd dle		~			Ø~ LT4
	Lan distance chann	al-				-	Display Elements
	Lap diatance chains	96.					Measurement Element
				101			Measurement Source

Drag icon FM40 inside the project.

Set the parameters in the opening window:

WDServer folder: address in which DCP files generated by Racecon can be saved, put in the file directory the file where RaceCon files must be saved in (DCP files are necessary for WD server program in order to decode incoming messages).

Project key: the code which is combined to the DCP file name. Default value can be allowed.

Baudrate: data transmission speed in telemetry. Set always up 115200 bps.



On Calibration/Measuring menu, drag the *Value "Telemetry_Mode"* inside the document from the right-menu, then verify that it is set up on FM40.





8.1 Special Channels

The program requires some specific channels in FM40 configuration.

Through these channels it is possible to display, for example, the car running on the track, lap times and fuel consumption.

Channels list:

Distance channel: covered distance on lap in progress "LAPTRIGGER_LAPDIST_DLS".

Lap number channel: number of lap in progress "LAPCTR".

Lap fuel channel: last lap fuel consumption "FUEL_FUELLAPOLD_DLS".

Lap time channel: last lap time "LAPTRIGGER_LAPTIMEOLD_DLS".

Lap distance channel: not necessary.



For some of these channels, e.g. *lap fuel channel,* it is necessary to add them on RaceCon configuration.

To do it, go on RaceCon main page, in the right-menu, in "measurement source" section and add the desired channel by dragging it in the centre of the page. (see image)

C60 Status Mode Call Call Call Call Call Call Call Cal	keh 50 Workspoor: ngk 50 <mark>Bill Skorget</mark> Autor Ale Consumption Waard - Add New X	
spect X Sal New Project	Select a fuel consumption source channel for computing the fuel consumption	Toobex 7 3
Gal New Project 20 Laptrigger 31 - 400 50 - 500 50 - 500 500 500 - 500 500 500 500 500 500 50	General Configure on device	Qevices Display Elements Measurement Elements Measurement Sources
Measurement Container Measurement Container	Tark capacity 80.0 2 1	Bosch Wizard
	Poli consumption calculation Mode Using field consumed V Goot Adaption factor to [m] Consumption conscion factor 1000	Analogsources Characteristic Curve Multipoint Adjustment Sensitivity/Offset
	Remaining laps calculation Mode Latt lap's consumption ~	Fréquency sources Characteristic Curve Revolution Velocity
	Target lap consumption 3,0 \$ 1	Computed sources
	Passe late Contraction Mode By RaceCon ✓ Preset signal source	Characteristic Curve
	Pieret signal freehold Low active signal Statement Pieret Pieret Net Used	Gear Lookup Table Hysteresis Laptrigger PVM Out
Sal System Over	CBsck Net > Rrigh Cancel	Sensitivity/Offset
n	i x Info/States	



8.2 Channels in Telemetry

System Log Logge Downlast	per Desplay Calibration/Mee	numg Tools Reneme Decit Add Delete			La_000_CList	20160307_CAS-H_E	1.np - NaceCon V2.3.1,610 *	_	
A Langer and Depla	a Readen Are	e Cent							2000
and any gene only to									
	the second participant is an assessment								Show all
I new channel F	dit channel(s) Delete channel	in) IT Flat view						35	B B B Show all
his view does not re-	and the innestants overhead for the	datarate calculation. Please	have	a look at the	statistics view for a more detaile	d calculation.			Name
a same after son re-	And the meridiant's conclusion one	and an an allow. Heave			and a more proved				a canctri
	Name	· Source			Rate / True rate	Condition	Telemetry	Datatype	a_carectri_out
22 channels @1	lapctr	MS6.4 Logger and	f Disp	lay	1 s		None	8 Bit unsigned	a canotin
vehicle_dyn	Laptrigger_cntdown_dls	MS6.4 Logger and	1 Disp	lay	100 ms		None	16 Bit unsigned	a candif
38 channels Ø6.	Laptrigger_lapctr_dls	MS6.4 Logger and	t Disp	lay	1.5		None	8 Bit unsigned	a candil abs
tyres	Laptrigger_lapcurr_dls	MS8.4 Logger and	1 Disp	lay	18		None	8 Bit unsigned	a carnelit abs out
8 channels Ø0,	Laptrigger_lapdr= dr	Mill Al constant	100	iay 🛛	18		None	16 Bit signed	a_camdif_sbs_out2
TC	Laptrigger_lapdi	fine shareful	np	lay	18		None	16 Bit signed	a_carodif_abs2
9 channels @1	Laptrigger_lapda ins Eak record	ung channel(s)	op	lay	1.8		None	16 Bit signed	a_carodif_out
MS64_basic	Laptrigger_lapd: 👗 Cut		ab	lay	10 ms		None	16 Bit unsigned	a_candif_out2
234 channels Ø_	Laptrigger_lapse 🔄 Copy		ab.	lay	1.8		None	16 Bit signed	a_candif2
error	Laptrigger_lapse × Delete		sp	itty	18		None	16 Bit signed	a_camphs
274 channels Ø_	Laptrigger_lapse Add arou	p	op	lay	15		None	8 Bit unsigned	a_campts_out
electric	Laptrigger_lapse X Delete on	SUD SUD	op	ay	18		None	16 Bit signed	a_campre_out2
85 channels @ 1.	Laptogger_lapto	in the second	P ^o	ioy	10 mb		None	32 Bit unsigned	Caroping
AGS	rabudder_about		100	ay .			riche	az on unsigned	PLARS Active
105 channels Ø_	Laptrigger_laptri Add recor	ang	200	ay	10		rione bises	32 bit unsigned	Bats clutch
knock	Laphrigger_toptin ap Rename n	ecoraing	op	01	10 mb		none	to be unsigned	Buts clutch booken
27 channels @1.	Laptrigger_raps/ Rate		• [**		10 ms		rection Norma	o on unsighed	AB5_Limp
chitch	Laptrigger_mail Telemetry		•	None	10 ms		rection biogen	o bit unsigned	ABS_cill
64 channals (0.1	Lastinger and Export to	".csv" file		Slow	1.		Name -	P Discoursed	2485_cn
CAS	Laptrigger_coult	MS6.4.1 copper per		Fast	10 mm		Nime	o be unsigned	ABS_pos_can
Ill channels (3.1	cape gges_age at _ an	MSE 41 copper and	Den	-	1.0		hime	R Diff unstanged	< (III)
		A cogger an		3	(19) (19)				Loptrigger lepdi
									Provided by MS4.4 Lt
									Institle to last
									Here on the second
									Quantisation: 0,01

Enter inside the *Logger* menu where logged channels are filed in order to insert channels which must be sent to telemetry.

Channels leaved on NONE won't be sent in telemetry.

The frequency of the sent channels in telemetry must be spread over sent channels quantity and modality (FAST & SLOW MODE).

Channels are grouped into 8 blocks and are sent in this order:

FAST BLOCKS (blocks #1) This block is broadcasted at every cycle. Channels which require a high frequency reading (i.e. RPM, SPEED) must be inserted in this block, generally.

SLOW BLOCKS (blocks 2...8) One of these blocks is sent in sequential order at every cycle. Channels which require a low frequency reading (i.e. WATER, TEMP., TYRE TEMP) are sent in these SLOW blocks, generally.



When the maximal number of channels is reached, an error is displayed in Racecon.

It is possible to see how many blocks are sent by clicking on FM40 and by entering in *Statistics*.





8.3 RaceCon Configuration Check

Enter inside Calibration/Measuring menu and drag inside the document the Telemetry state channel on the right-menu in order to check the right dispatch of the data from Logger to the telemetry module. If it has been configured correctly, "TELE_FM40_SENDING" message is displayed.



Otherwise "TELE_UNINITIALIZED" is displayed.

Measurement list	
telemetry state	TELE UNINITIALIZED



Attention: if a project is copied from a PC to another it is necessary to update the WDServer folder address. Otherwise this error will be displayed:





9 PowerOnBridge Configuration

Download the latest version of Power On Bridge

Install the Power On Bridge by following the instruction.

9.1 New Car

Create a new car with connected license and set up the transmission port with WD Server.

PowerOn Telemetry Bridge 1.08	
TS113G_004 ▼ Car name: TS113G_004 WDserver Port 10003 License: ∞∞∞∞∞∞ localhost ▼	Status TS113G_001: no data from car TS113G_007: Connected @ 4.02 MB/h TS113G_004: Server was Disconnected TS113G_005: Checking connection
Save Delete My Car	
Start/Stop Car Configure Car	
Start All Check Car	
Configuration Saved	

-Car name

-*WDserver port*: The inserted port, which can have any value from 10000 to 19999, must have different values from car to another.

This port must be the same of the set up WDserver-one for the corresponding car (from 10000 to 19999).



-*License*: The license code allows the connection to the Server. This license is supplied from PowerOn.

Set up the peripheral device on which received data must be broadcasted. For Bosch system set it up on *localhost.*

After having set up all parameters for the connection, the configuration can be saved and then displayed in the drop-down menu.

By opening the drop-down menu it is possible to add other cars and delete them with *Delete* button.

Press *Start/Stop Car* in order to open and close the communication with the Server, by closing the program all communications with Server get closed.

With Start All button it is possible to start at the same time all saved cars.

All saved cars are displayed on the right box, with their connection status (on their side)



Inside the status box it is possible to have small diagnostics with a 3 colours markers:

•Red the program is disconnected from the server.

•Orange the program is connected to the server but it doesn't receive any data in telemetry.

•Green the program is connected to the server and it receives data in telemetry. When there is a connection with the server the writing speed: XX,XX MB/h appears at the bottom and this allows to understand the traffic size which is used for the selected car.

•Blue it stands for a waiting status which happens when another pc is using the same license code. As soon as the first user gets disconnected, the second one gets connected automatically (*Checking connection...*).

For a complete list of errors see PowerOnBridge Error List

By clicking the button "minimize", the program will shift to the hidden taskbar.



9.2 Car Configure

After having set up the program and having configured own vehicle, turn on the device and connect to its Wi-Fi network (TS124G_XX).

The default password for the device connection is the same of the Wi-Fi name (capital letters included)

By clicking the button *Configure Car* it is possible to enter to the configuration page.

If by clicking the button the web page does not open, you can enter your browser and type *10.10.0.25* in the address bar.

	- H	OME:					
Home	Wifi&Cell Log	Check Internet Connection	Serial Port Update	Reboot		Version: 1.0 C	Telemetry Mode
	Write th	ie license da	ta and save				
	License: Save	123	34:5678				

Insert the license key in this screen (default inserted)

	TS124G	
	• • •	
- WIFI&CEL	L:	
Home Wifi&Cell Log Check Internet Conne	tion Serial Port Update Reboot	Version: 1.0 C Telemetry Mode
Configure Wifi ar	d mobile and save, reboot afte	r configuration changes
Mode:	Router Mode:	
APN:	ibox tim.it	
Wifi Name:	TS113G_000	
Wifi Password, minimum 8 characters:	TS113G_000	
Salva		

Mode: Here the telemetry module function mode can be chosen:

- Router Mode: Choosing this mode the module works as a Wi-Fi internet hotspot.
- Telemetry Mode: In this mode the module sends vehicle data to the server

APN: insert here the APN. It is necessary in order to connect the device to the network through the own providers (here must me used the same APN which would be used inserting the sim in a tablet).

In order to know the correct APN, it should be asked when buying the sim card. Or this can be found searching for it in the network. More APN will be found for each provider and if it is not clear which APN is the correct one, we advise to contact the provider. Once the correct APN has been inserted, on the telemetry module a green flashing led will turn on. Furthermore, on this page it is possible to set a new Wi-fi network name and a new password.

Press Save button and reboot the modem in the reserved page.

Chack Internet Connection Serial		•••		
Check Internet Connection Serial				
Check Internet Connection Serial				
Uneck Internet Connection Serial		Version: 0.91		
	Port Update Rebo	ot		
onfigure vviti ar	id mobile al	nd save, i	repoot at	
iame:	ibox.tim.it TS113G_000			È stato scelto di aprire:
a a minimum 8 characters:	TS113G_000			leg.pon tipc: pon File (1,2 MB) dk: http://10.10.0.25
				Che cosa deve fare Firefox con questo file?
				C Apririo con Stoglia
				Satva tie Da ora in avanti esegui questa azione per tutti i file di questo tipo.
				OK Annulla
	onfigure Wifi ar anne: hanavord, minimum 8 characters: a	Configure Wifi and mobile at the second mobile at the second motion of t	Configure Wifi and mobile and save, i	Configure Wifi and mobile and save, reboot at the formation of the formati

It is possible to download the device log file, which is the telemetry module file archive, by clicking on Log page.

If need be, the file can be sent to Power On in order to be analyzed.

- CHECK INTERNET CONNECTION:

Home Wift&Cell Log Check Int	ernet Connection Serial Port Update Reboot	Version: 1.0 C. Telemetry Mode
Fetched inte	ernet page:	
Telemetry s	ystem is now connected to internet	

By clicking on "Check Internet Connection", this screen will be displayed. In this page it is possible to verify if the device, after having set up the correct APN, is connected to the network.



- UPDATE:

In this screen it is possible to update automatically the device with the last update version. (see Upgrading the module)

- SERIAL PORT:



Here the speed communication of serial port (RS-232) can be chosen.

	-	RE	BOOT:					
Home	Wifi&Cell	Log	Check Internet Connection	Serial Port	Update	Reboot	Version: 1.0 C	Telemetry Mode
	Re	boo	t device					
	Rebo	ot						

Here the module reboot can be started. The reboot is necessary in order to save modifications applied in the previous screens.



9.3 Car Check

Once the communication with the Server has started, the last received message from the car can be displayed by clicking on *Check Car*.

PowerOn Telemetry Bridge 1.08	
TS113G_007 Car name: TS113G_007 WDserver Port 10002	Status TS113G_001: no data from car TS113G_007: no data from car TS113G_004: Server was Disconnected TS113G_005: Checking connection
License: XXXXXXXXX localhost	Warning Last Message from car: 1min ago
Start All Check Car Configuration Saved	ОК

Once pressed, the message 'Last Message from car: Xmin ago" appears.



9.4 My Car

In PowerOnBridge program, a new Internet page will be open by clicking on "MyCar". Useful details and download will be found in this internet page, if the license code is the correct one.

		Software	Racing electronics
Name	CAR1	PowerOnBridge1_07 exe	
License	license test	 PowerUnbridgeAlpha.exe WD server 	
Company	Poweron	Configurazione Bridge	
Server	t1.powerontelemetry.it	Metadata and DCP	
Last Login	7/4/16, 1:02 PM	files upload	
Telemetry Temperature		Download	
55.0		Delete DCP.ini	
0.0000	X	Delete dcp_04D2_00 ini	
52.5			
52.5	1	Download	
52.5 50.0 47.5		Download	

As it is shown in the upper screenshot, here it is possible to upload and download the DCP files. These files are useful if transmitted data from an access which does not belong to the local network one must be visualized. In this case, a second license for PowerOnBridge is needed.

In order to reach this file sharing, this procedure shall be observed:

- Click on Choose file button.
- Select all DCP files and choose Upload.
- Click Download to download all files.

In My Car a temperature diagram of TS124G modem installed in the car can be displayed.



10 WD Server Configuration

Set up the WD Server Program

Open Wd Server and set with which network files will be shared with telemetry data in *Workdesk > Setting > NetworkAdapters*.

	senser bmsrta - WinDarah Senser		
International State (State	Inter-Denicity - Westward Server		
	9 2 T		
10 10 10 10 10 10 10 10 10 10 10 10 10 1	12 X		
	RET 18 20 And Concerning State College (CSR-00) (2014)	Settings: Image: Trimmery Folder with 50 CC onfiguration Size [Folder with 50 CC onfiguration Size [Temptre to the date this setter [Joint [Society] [Temptre to the date this setter [[Society] [Folder with 50 CC onfiguration Size [[Society] [
to column help.			
	to cotain help.		NUM 1924



In *Telemetry* window, set in which folder files DCP created by RaceCon will be read.



Set the folder which contains the telemetry saved files, once the communication with the device in the car has finished.



 $\bullet \bullet \bullet$

10.1 Add New Cars

In the menu bar, click Telemetry and then Add car.

In Car setting enter the name of the car.

If more than one car with different DCP files is used, set the DCP files directory in the window which appears.

Click New com.

Write UDP in the COM Port visualization window.

Enter the UDP port number which is assigned into the Poweron Bridge.

Click Ok.

wdserver.bmsdg - WinDarab Server	
Concerning revenues of cards protocol Options 7	
LINE 7 I	
1971 (av 2171) 1971 (av 2171) 1972 (av 21971) 1973 (av 21971) 1974 (av 21971)	Car stillings Car stillings USP 90010 Linging Part, Jack T
	OK Annia Appina _ 7
ns I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

10.3 Receiving Data

After started the program PowerOnBridge and established the server communication, the WD Server begins to receive data if the modem placed in the car transmits them.

The visualisation of the created car in WD Server is splitted into two parts:



Part 1:

In this section is possible to know if the program is receiving data.

Once the connection to the server is established, with the label *Byte/Sec,* data transmission of the device on the car is displayed.

Part 2:

If the loaded DCP file is correct, WD server can recognize the data packs and consequently part 2 will be enabled.

Click Block/Sec to check if the program can decode the received data

If the loaded DCP file is not the correct-one the red message *"Wrong block size detected"* appears.

As shown in the screenshot, even if the DCP file is not correct, the program receives the data in part 1, but it isn't able to decode them, consequently part 2 is neither activated nor displayed.



The log window shows the client connection through WinDarab.



11 WinDarab Configuration

Create a new file in *File Explorer*.

Enter Bosch>Windarab>Config>WDServer folder.

If WDServer is open, a temporary file with real time received data is created. (*.bmswds).





12 Module Update

In the device configuration page, the TS124G can be upgraded automatically by clicking on Configure Car button in PowerOnBridge.

Be sure that the module is correctly connected to Internet.

- Connect to the Wi-fi module network and enter the configuration page.

-Enter the Update page. Click on UPDATE button and then press OK.

Home Will&Cell Serial Port Update Reboot	
UPDATE device	
COPENSE:	
	Are you sure you want to UPDATE the device, please read up to 2 members and refresh the page
	OK Avada

If the update run out successfully, some signs corresponding to the downloaded packets during the update will be displayed.

Home Wifi&Cell	Serial Port Update Reboot
	Please wait
	Archive: Amplagdate zip inflating: Anomeju/bin/modem_Ender.sh creating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.as.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.as.map.inflating: Anomeju/bin/web/stabcotstrap.theme.cs.map.inflating: Anomeju/bin/web/stabcotstrap.theme.as.map.inflating: Anomeju/bin/w

Wait a minute and then refresh the page.



13 Utility

- Before insert in the Sim card inside the modem, be sure that the pin code has already be disabled.

- If the Internet connection in the box is not permanent, PowerOnBrige program could lose the connection to the server. Click on Start/Stop Car button in order to restart the connection to the server.

-Be sure of a permanent Internet connection in the box.

It happens very often that using the free racetrack Wi-Fi during the first trial competition days, the system works correctly but later, during the race competition, the system could have a precarious connection. This happens because more people will be connecting to the same wi-fi network.

Recommended is a second Sim card which can be insert in a smartphone, tablet or modem in order to create an hotspot network which can guarantee a more permanent internet connection.

If in WDServer the communication with the car has stopped and it won't be activated, click on Start/Stop Car button.



14 Optional Upgrade Upgrade1

An optional upgrade can be bought if telemetry on more than one not connected pc is required.

Thanks to this upgrade, the configuration and visualization telemetry software can be used on three different pcs at the same time.

Two new license codes to be used in different places will be given.

15 PowerOnBridge Error List

15.1 Section "Status" Errors

			cars	ht one			nother other
Possible Solution	~	Check internet connection	Remove one of the two identical o	Check if the added license is the rigl	Check the internet connection	Switch on the chosen vehicles	Check if the same car is running on a PowerOn Bridge (check also if ano PowerOn Bridge is on)
Description	Server connection in progress	Error during the connection to the license server	Car is already connected to and running in the same PowerOn Bridge	License error	PowerOn Bridge was disconnected from the server because of user's request or because of an error	PowerOn Bridge is not connected to the server	Waiting for streaming server availability, the wait continues until other bridge take up the connection
Error Message	Checking connection	Could not get license information	Car already connected	Error checking license	Server was Disconnected	Server Disconnected	Waiting for server become ready





15.2 "Check Car" Screen Errors

Possible Solution	Check internet connection	7	Check if the added license is the right one	Check internet connection
Description	Error during the license server connection	Last telemetry connection to the PowerOn bridge is shown	Error during the license authentication (not valid or license server error)	No connection to the license server
Error Message	Could not get information	Last Message from car	Error communicating with server, check connection and license information	Error communicating with server, check connection



15.3 "Popup" Errors

V 2.1



NOTE





di Lorenzo Wohlgemuth Via Roma, 23 I38030 Castello di Fiemme (TN), Italy Tel. +39 0462 341015 - Fax +39 0462 248393 Web. www.poweron.it - Email. info@poweron.it