



Telemetry Manual with Cosworth System



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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, MOTEC and Cosworth devices and it is possible to connect it to any different logger if provided with RS232 data transmission.



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1 Hardware Required

CAR:

- TS124G Modem
- Sim Card with enabled internet connection
- Car wiring harness
- Antenna

PIT:

- Internet connection

Cosworth System

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Cosworth system is based on PI Toolset software which can be downloaded at:

https://www.cosworth.co m/products/toolset/?cat=s oftware

and for data view using PI Toolbox available at:

https://www.cosworth.co m/products/toolbox/?cat= software



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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 PI Toolset Configuration enable the transmission data in telemetry (see <u>PI Toolset Configuration</u>);

3) Install these two software:

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

-PI Toolset available on <u>www.cosworth.com</u> website and at addresses of the previous page;

4) Start PowerOnBridge and configure it (See <u>PowerOnBridge</u> <u>Configuration</u>);

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 <u>Configure Car</u>);

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) Launch PI Toolset and start the configuration (see <u>PI Toolset configuration</u> <u>for Telemetry Reception</u>).



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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



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4 System Layout





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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 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.



Led Status 7





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.

!!CAUTION!!: if the green led flashes it does not mean that it is ready to broadcast data to the server, but it means that it was able to connect to the right operator network. This led represents a help to understand if the right APN was inserted in the modem configuration (see chapter APN). Even if the Sim card has 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



It turns on during the system initialization

8 PI Toolset Configuration

Open *Setups* page from the project tree, then double click on the current project.

Ð	Nodes	CLU_V11_3.1_SIN	UNTEGRATION_AXR_N	14 ×	Setups								
)	Actuators	1	Channel Rates	0	Fuelling	•	Logging	8	NMEA 0183 Decode	0	Streams	0	Video
	Alarms	ø	Circuits	0	Hardware Settings	0	Logic Channels	O	Qualifying Mode	0	System Status	Ø	Wheelspeeds
à	Beacons	۲	Displays (Ethernet)	ø	LED Configuration	0	Lookup Tables	Ð	Sensors	0	Telemetry	0	Zeroing
<i>»</i>	Buttons	0	Displays (Serial)	0	UN	•	Math Channels	٢	Shift Lights	0	Telltales		
)	Version Informa	ition											
5	Version and Varia	nt information for t	his Setup:										
	bence	Club level Central Version 11.0 (Built	Logging Unit 1119 - Update 1)										
	This setup require	es Toolset version 6	0 or later.										
	Health Check												
	Unable to send: D	Device is disconnect	ed.										

Click on *Telemetry* icon, choose "+" button from the left-sided menu.

	Telemetry Tables	Genera	I
	A A A	Config	ire the general settings for this telemetry table.
(\mathbf{I})		Name	PowerOnTS
	PowerOnTS	Enable	
2		Rates	(Hz) Edit Channel Rates
\bigcirc			•
$\tilde{\sim}$		Output	
Ð		Config	ire how data should be transmitted for this table.
(fix)		Output	Custom Serial Telemetry
0		Bandwi	dth 4 KiB/s of 11 KiB/s (31%)
€		Serial P	ort Serial 01 (Tx)
(1010)		Baud R	ate 115200
•		Data Bi	8 bits
		Stop Bi	1 bit
		Parity	None

Here enter the parameters as follows:

-Name: PowerOnTS

-Select enabled

-Output: Custom serial telemetry

-Serial Port: Serial 01 (Tx) (select it by clicking on "…"icon on the right). If the Engine control unit setup implies the use of another port for telemetry data transmission, please choose the right port named as (Tx). Probably some port are named as (Rx), this means that they are input (GPS input for example) and that they cannot be used for telemetry transmission. Connect TS124G telemetry to the selected serial port.

-Baud Rate: 115200

-Data Bits: 8

-Stop Bits: 1

-Parity: none

Once all parameters have been entered, click on *Save* button below on the right.



Click on *Hz* icon in the menu on the left and set the desired frequency of the channels used in telemetry.

	Data	Live Data A	ctions Setups	Channels	Settings	
E	(P) (P) (u)	U_V11_3.1	× Setu	ps		
$(\widehat{\mathbf{n}})$	Channel Rates					
	Channels 🔺	SS HS	(tp) PowerOnTS			
	00_History Acceleration X	Off 100 Hz	1 Hz 5 Hz			
	Acceleration Y Acceleration 7	100 Hz 100 Hz	Off			
9	Alarm CCW Pot1 Changed	100 Hz	Off			
(J) (J) (J) (J) (J) (J) (J) (J) (J) (J)	Alarm CCW Pot3 Changed	100 Hz	100 Hz			
	Alarm CCW Pots Changed	100 Hz	Off			
9	Alarm CCW Poto Changed Angular Velocity X	100 Hz	Off			
	Angular Velocity Y Angular Velocity Z	100 Hz 100 Hz	Off			
	ARB_Link_Load_F ARB_Link_Load_R	10 Hz 10 Hz	Off			
	ARB_Position_F	10 Hz	Off			

Save and send the configuration to the ECU.



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9 PowerOnBridge Configuration

Download the latest version of Power On Bridge Cosworth and install it following the wizard.

9.1 New Car

Create a new car with connected license and set up the transmission port with PI Toolset:

∂ PowerOn Telemetry Bridge 1.08	-	\times
Cosworth Status Car name: Cosworth Car name: Cosworth PI Toolset TCP Port: 10000 License: XXXXXXX localhost Iocalhost Save Delete My Car Start All Check Car		

-Car name

-*PI Toolset TCP 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 PI Toolset-one for the corresponding car (from 10000 to 19999), see Chapter 10 <u>PI Toolset</u> <u>Configuration for telemetry reception</u>.

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

-Peripheral device: (selection menu below the license field). Set the peripheral to which send received data, generally is *localhost*. If the network configuration includes several pc and network transmission toward another pc is required, select the correct interface. Caution! This option could involve advanced network knowledge or administration privilege and firewall setting modification.

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* 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 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.

Caution: be sure that only one PowerOnBridge is open.



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9.2 Car Configure

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After having set up the program and having configured own vehicle, turn the device on 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.

Once connected to the device, the following pages can be found:

	-	HOME:		
Home	Wifi&Cell	Log Check Internet Connection Serial Port Update Reboot	Version: 1.0 C	Telemetry Mode
	License: Save	r. 1234.6678		

Insert the license key in this screen (default inserted).

	• • •	
VVIFI&CELL		
Wifi&Cell Log Check Internet Conr	ection Serial Port Update Reboot	Version: 1.0 C Telemetry M
WHIRCell Log Check Internet Conn	nd mobile and save, reboot after of Router Mode®	Version: 1.0 C Telemetry M
WMMACCHI Log Check Internet Court Configure Wifi a Mode: APN:	ection Berial Port Update Reboot nd mobile and save, reboot after of Router Mode ® Telemetry Mode ® Telemetry Mode ®	version: 1.0 C Telemetry M
UMMSCEI Log Check Internet Conr Configure Wifi a Mode: APN: WM Name:	Router Mode:® Telemetry Mode:® Telemetry Mode:® Testing	version: 1.0 C Telemetry M

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 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).

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.

	TS124G	
	• • •	
LOG:		
Iome Wifi8Cell Log Check Internet Connection	Serial Port Update Reboot Version: 0.91	
Configure Wifi	and mobile and save, rebo	ot after configuration changes
APN: VMR Name: VMR Passored, minimum 8 character Service	and mobile and save, rebo	ot after configuration changes
APN: Vitil Name: Vitil Password, mithimum 8 character	and mobile and save, rebo	ot after configuration changes

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 to be analysed.

- CHECK INTERNET CONNECTION:



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 updated version (see <u>Module Update</u>).



In this screen it is possible to select the communication speed of the RS-232 serial port. The speed shall correspond to the one set in PI Toolset (see Chapter <u>8 PI Toolset configuration</u>). Generally, the speed is the maximum one, 115200.

- REBOOT:



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 Br	idge 1.08			_	\times
PowerOn Telemetry Br Car name: PI Toolset TCP Port: License:	Coswoth Coswoth I0000 IXXXXXX Iccalhost	Status Cosworth: Connected (₽ 37.95 MB/h		×
Save Dek Start/Stop Car Start All	ete My Car Configure Car Check Car		Warning Last Message from car: Omin as OK	×	

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.



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



10 PI Toolset Configuration for Telemetry reception

Enter Settings in PI Toolset.



Choose *Telemetry* from the menu in the left, then click on *add* telemetry source

10.1 6.0 Version and following

In PI Toolset 6.0 version and following use the configuration below:

Name	PowerOnTS-source	
_		
Туре	Ethernet (TCP)	~
Remote Location	localhost	
Remote Port		10000

Telemetry Server Configuration

-Name: PowerOnTS-source

-*Type*. Ethernet (TCP)

-*Remote location*: localhost (if different, enter the IP address of the selected network card in PowerOnBridge settings).

-Remote port: enter the set port in "PI Toolset TCP port" in Power On Bridge program.



10.2 Previous versions to 6.0

In PI Toolset versions previous to 6.0 one, use the following configuration:

-Name: PowerOnTS-source

-Type. Custom Ethernet

-*Remote location*: localhost (if different, enter the IP address of the selected network card in PowerOnBridge settings) -*Remote port*: enter the set port in "PI Toolset TCP port" in Power On Bridge program.



10.3 Live Data

CUI #142 Data Uve Data #4 Actions Setups Channels Settings Data Source Image: Source <th></th> <th></th> <th></th> <th></th> <th>1</th> <th></th> <th></th>					1		
Data Source General information about this telemetry source. Control (15) Source General information about this telemetry source. General information about this telemetry source. Control (15) Source Source Loss Control (15) Source Source Source Loss Control (15) Source Source Loss Control (15) Source Source Loss Control (15) Source Source Loss Control (15) Source Device CUI # 42 Stup CUI # 142 Stup CUI 113 J.SM.UNEGRATION.LAR.V4 0006/2018 1134 Connection Connection Easteld If Recompt Control (15) Source Easteld If If Recompt Control (15) Source Easteld If If Recompt Control (15) Source Status Information about the status of this telemetry source. Tel R & Source Recompt Control (15) Source Tel Ro (16) Source 7008 Tel Ro (16) Source Recompt Control (16) Source Tel Ro (16) Source 10 Recompt Control (16) Source Recompt Control (16) Source	CLU #142	Data	Live Data (+-)	Actions	Setups	Channels	Settings
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Device CLU F12 Setup CLU 113. SML INTEGRATION_AXR_V4 00/00/2018 1134 Connection Options for enabling and connecting this telemetry source. Exabled II Reconnect II Reconnect II Information about the status of this telemetry source. Status Information about the status of this telemetry source. Tel Re Soutus Tel Re Soutus II Tel Reconnect II	(Receiving Data)		Source	localhost:	0000		
Setup CLU_V11_3.1_SML_NTRGRATION_ARE_V4 0008/2018 11:34 Connection Options for enabling and connecting this telemetry source. Enabled Image: Click to refresh connection. Status Information about the status of this telemetry source. Tell R. Scatus Status			Device	CLU #142			
Connection Connection Connection Connection Consoler Connection Consoler Conso			Setup	CLU_V11_	B.1_SIM_INTEGR	ATION_AXR_V4	
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Enabled Reconnect Status Inderstation about the status of this telemetry source. Tel R Status Tel Rs Coverage Tel R Inderstation 2006 Tel R Inderstation 2006 Tel R State Status Tel R Status			Options for en	abling and conn	ecting this telen	netry source.	
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Tel Rullad Bytes SI Abytes			Tel Pr Couera			nece	ning Deta
Tell Ru Throughput 7 Holytes/s Tell Ru Bud Packets 301 Tell Ru Bud Rytes 53 köytes			Tel Tx Packets	9e 70398			
Tel Ru Bad Packets 301 Tel Ru Bad Bytes 53 kbytes			Tel Rx Throug	hput 7 kbytes/s			
Tel Rx Bad Bytes 53 kbytes			Tel Rx Bad Pa	ckets 301			
			Tel Rx Bad By	tes 53 kbytes			
Telemetry Logging			Telemeter Los	aina			

The screen shall be as follows

Tel Rx Status: the bar shall be green on the right, that means that PI Toolset is connected to PowerOnBridge, while it shall be yellow on the left. *Tel Rx Coverage*: the bar shall be mainly green (it stands for the received data quantity compared to the quantity that the software expects to receive). If the bar is not green, check if the pc used for the RCU programming is the one used, otherwise configuration files from the pc used for the programming shall be get back.

- -Tel Rx Packet6.s: stands for the received data quantity
- -Tel Rx Throughput: stands for received data speed
- -Tel Rx Bad Packets: rejected packets because of communication errors
- -Tel Rx Bad Bytes: rejected bytes because of communication errors

If the bar is light green or orange, *connecting* or *no stream found* appear in the right side, check if PowerOnBridge receives data from the vehicle.



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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.

UPDATE device	
Contractor (Contractor)	
Are you sure you want to LPDATE	the device, please wait up to 2 minutes and refresh the page.
	Arrufa

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 Raboot
	Please wait
	Archive: Amp/update zip inflating: home/pi/bin/webcash inflating: home/pi/bin/web/sts/bottrap.css inflating: home/pi/bin/web/sts/bottrap.home/pi/

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, PowerOnBridge program could lose the connection to the server. Click on Start/Stop Car button 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 a hotspot network which can guarantee a more permanent internet connection.

If in PI Toolbox 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.

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15 PowerOnBridge Error List

15.1 Section "Status" Errors

Check the internet connection and firewall settings regarding the tcp traffic from port 10000 to 50000 reception	/	Check if other programs are broadcasting on the same PowerOn Bridge port and check if the right value was added (between 1000 and 65000)	~	Check the license and the right APN in the telemetry	Check if the computer firewall interrupts the connection
The streaming server is unreachable, there is no connection	Authentication on the streaming server	Error in the UDP socket creation for the local wd server	PowerOn Bridge is connected to the server and receives data at the specified speed	PowerOn Bridge is connected to the server but the telemetry is not sending any data	Error during the license authentication on the server streaming
Server Unreachable	Authentication	ERROR in UDP Socket Creation	Connected @	no data from car	Authentication Error, check username and password

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15.2 "Check Car" Screen Errors

Possible Solution	Check internet connection	Ţ	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

Possible Solution	Check that the "client.conf" file is in the PowerOn Bridge installation folder (Default "C:\Program Files (x86)\PowerOnBridge") and check the reading/writing authorisation existence in the folder	/	Check the internet connection and check that the license is the right one.
Description	Configuration file not existing or missing reading authorisation	The selected car configuration was saved accurately	"My Car" page cannot be opened on the license server
Error Message	Couldn't open config file	Configuration Saved	Error retrieving car details or license information's

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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