



BT-Q1300

Travel Rec⊚rder™**nano**

eXtreme 66-CH Performance Bluetooth A-GPS Travel Recorder Superior Track Logger and Navigation Dual-IN-ONE



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1. Overview

Thank you for choosing Qstarz eXtreme 66-CH **BT-Q1300** – Bluetooth® A-GPS Travel Recorder™ nano, built-in second generation GPS chipset MTK with 66 channels performance for your navigation and travel log, and also, provides stand-alone logging up to 200,000 records with 12 hrs recording, and supports Smart Power control and Auto Log On-off to extend usage time and save memory even more. Besides, **BT-Q1300** software utility supports multi-condition setting which allows you to customize and personal travel record by 3-level detail adjustment and provides download, save, and split to arrange tracking record; moreover, you can display travel path directly on Google Earth and combine geography information with photos by Geotagging.

2. Product Notice

On Handling

- If BT-Q1300 isn't used in temperature between -10°C ~ 60°C, its battery charging capability will decrease. Leave the BT-Q1300 far from heat or high temperature environment. And also, do not expose your BT-Q1300 in temperature higher than 140°F/60°C to prevent the battery inside BT-Q1300 from overheating, exploding or burning itself. The built in battery inside the BT-Q1300 should be recycled.
- It is recommended to turn BT-Q1300 off in the hospital. Wireless GPS receiver may interfere with the medical equipments which use radio frequency.
- The manufacturer assumes no responsibility for any damages and loss resulting from the use of this manual, or from deletion of data as a result of malfunction, dead battery, or from misuse of the product in any way.
- Please clean the unit with a dry and clean soft close. Do not use

harsh cleaning solvents, chemicals, alcohol, or strong detergents.

• Do not attempt to open BT-Q1300 by yourself. Unauthorized hacking may damage the unit, and void your warranty.

On Battery & Safety

- Charging time is about 1 hour typically for this unit. We suggest disconnecting the unit from the cigarette charger or AC charger after the unit has been fully charged.
- Be sure to use the supplied cigarette charger including in package; otherwise excessive voltage may be applied to the unit and may cause smoke, fire, or accident.
- When the unit is not in use or not charged, we suggest disconnecting the unit from the cigarette charger. Otherwise battery drain may result.
- Note that the built in battery cannot be charged outside the temperature range 0°C ~ 45°C.
- The charging time might be extended if you use the product while charging
- Do not heat or leave the unit in high temperature or direct sunshine for a long period of time as the built-in battery capacity will deteriorate, or will become unchargeable.

3. Features

Hardware:

- Adopt the MTK II chipset with high sensitivity -165dBm and Super High 66-Channel performance tracking
- Lower power consumption to 12hrs for travel recording
- Stand-Alone travel recorder to log up to 200,000 waypoints(*)
- Slim, Thin, Light, and Stylish design, only 62L x 38W x 7H (mm)
- Built-in Photo Geotag and visualized travel path
- Support button push manually to memorize your location



immediately

- Support Multi-mode setting to record data (Vehicle, Bicycle, Jog)
- Fast Position Fix, Cold start 35s, Warm start 33s, Hot start 1s
- Auto On-Off function for smart power control
- Personal/Portable Navigation (PDA, Smartphone, PC, etc.)
- DGPS(WAAS+EGNOS+MSAS), QZSS support
- A-GPS support boosts the fix speed to 15sec faster

Software:

- Double software included with built-in Google Map, multi-language support, and visualization UI
- Provide PC Utility with built-in Google Map and visualization UI for users to easily manage their travel
- Auto track split function helps you organize your travel path
- Support Track Edit function allowing you to remove unnecessary waypoints
- Backup your travel record as GPX / CSV / NMEA / Google Earth file format
- Draw your navigation path immediately on Google Earth as default
- Support GeoTagging function for digital photo and generate KMZ file easily

* The waypoints would be decreased when the more options of Log Format are selected

4. Product Specification

General					
GPS Chip	MTK II GPS Module				
Frequency	L1, 1575.42MHz				
C/A Code	1.023MHz chip rate				
Channels	66-CH Performance				
Antenna (Internal) Built-in patch antenna with LNA					
Sensitivity	Tracking -165dBm				
Datum	WGS84				
	Performance Characteristic				
Position	Without aid: 3.0m 2D-RMS				
Accuracy	<3m CEP(50%) without SA (horizontal) DGPS (WAAS, ENGOS, MSAS): 2.5m				
Velocity	Without aid: 0.1m/s, DGPS (WAAS, ENGOS, MSAS): 0.05m/s				
Time	50 ns RMS				
Cold/Warm/Hot Start	35/33/1 sec, average				
	Dynamic Condition				
Altitude	<18,000m				
Velocity	<515m/sec				
Acceleration	<4g				
	Protocol				
GPS Output Data	NMEA 0183 (V3.01) -GGA, GSA, GSV, RMC (Default) VTG, GLL(Optional)				
Baud Rate	115,200 bps				
	Power				
Bui	t-in rechargeable Li-ion battery				
Bluetooth					
Standard	Fully compliant with Bluetooth V1.2				
Bluetooth Profile	Serial Port Profiles (SPP), Up to 10 meters				
	Others				
Size / Weight	62 (L) X 38 (W) X 7 (H) mm/ 22g				
Operating					
Temperature	- 10 °C to + 60 °C				
Storage Temperature	- 20 °C to + 60 °C				
Charging	0 ℃ to + 45 ℃				

5. Hardware Introduction

5-1. Appearance

1. Power Button (ON/OFF/Enable LOG mode/Disable LOG mode / Push to LOG)

- 2. Power jack (mini USB type)
- 3. Bluetooth status LED (Blue)
- 4. Battery status LED (Red/Green)
- 5. GPS status LED (Orange)
- 6. LOG status LED (Green)
- 7. Internal antenna

5-2. Hardware Function

Hardware Function	Description
Power Jack	Take the power cable and connect it to the power jack (mini USB type) for charging only
Power Button (On)	Press power button and hold for 4 sec to power BT-Q1300 on.
Power Button (Off)	Press power button and hold for 4 sec to power BT-Q1300 off
Power Button (Enable Log mode)	Log is on when BT-Q1300 is powered on by pressing power button and hold for 4 sec. The LOG status LED (green) would blink, and start to log.
Power Button (Disable Log mode)	After power on BT-Q1300, press power button and hold for 2 sec to disable log mode. Then BT-Q1300 would stop logging with the LOG status LED (green) Off. Press power button and hold for 2 sec to enable log again.





Power Button (Push to Log) Press power button once to push to log the favorite Point of Interest.

5-3. Charging Battery

For the first time using the BT-Q1300, please charge battery until it is fully charged. Take the power cable and connect it to the power jack (mini USB type) and recharge through USB cable, travel charger, or car cigarette adaptor. This will begin to charge the battery. Charging time is about 1 hours typically.



- When the Power LED is Red, battery power is low status. Please recharge.

- When the Power LED is Green, the battery is under charging mode.

- When the Power LED is off, the battery is fully charged.

NOTE 1: The Cigarette Adaptor can only be used to charge BT-Q1300. Please don't make use of it with devices other than BT-Q1300.

NOTE 2: Please recharge the battery on a regular interval if the unit is not used for a long time.

LED Status		Flash	ON	OFF
Power (Red/Green)			Recharging (Green) Low Power (Red)	Fully charged
<i>Bluetooth</i> (Blue)	*	Flash per 2 sec.: Bluetooth connected and transmitting Mode Flash per 5 sec.: Power saving mode	Not connected /Pairing	GPS not powered / Log Mode is on

5-5. LED Indicators



GPS (Orange)	8	GPS position is fixed, Navigation	Detecting Satellite, GPS position not fix	GPS not powered	
Log (Green)		Log Mode is on <u>Flash per 2 sec.</u> : Low memory <u>Flash 3 times</u> : POI(Point of Interest) is recorded	Memory is full	Log Mode is off	

5-6. Function of Auto On-Off, Auto Log On-Off

Auto On-Off (Power saving mode): BT-Q1300 will automatically enter sleeping mode after the *Bluetooth* connectivity is turned off, so the Blue LED will turn to flash every 5 seconds. Thus you can always power it on with very low power consumption.

Under power saving mode, when detecting *Bluetooth* is being connected, BT-Q1300 will auto wake up itself and the blue LED will turn to flash every 2 seconds and GPS Orange LED will be also On. *Note: Power saving mode would not function when log is enabled or connected with PC*.

Auto Log On-Off: Under Log mode, BT-Q1300 will automatically stop log after the GPS is not fix. However, the LED will not indicate it since it works in background. As long as the GPS is fix again, BT-Q1300 will start to log. Thus you can save very much memory during your travel.

6. Setup BT-Q1300

6-1. Install the driver and software utility for BT-Q1300

System Requirement (Only compatible with Microsoft Windows XP

/ Vista)

Minimum System Requirement	Recommended System Requirement
- Windows XP or Vista - Pentium 3, 500Mhz - 128M RAM - 128MB disk space - Network speed: 128Kbits/sec - 3D-capable video card with 16Mbytes of VRAM - 800x600, "16-bit High Color"	- Windows XP - Pentium 4 2.4GHz+ or AMD 2400xp+ - 512M RAM - 2 GB of free disk space - Network speed: 768 Kbits/sec or better (DSL/Cable) - 3D-capable video card with 32 MB of VRAM or greater
screen	- 1280x1024, "32-bit True Color" screen

1. Please insert the Driver CD to your computer, and find the folder "Utility\PC Utility V4\". Double click

"TravelRecorderV4_installer.exe" to install the software utility package. This software package contains USB driver and PC Utility V4 software inside.





2. System would pop up the utility installation dialog. Please click <Next> for the next step.



3. Please select "Travel Recorder PC Utility V4" and "GPS Data Log Device Driver", and then click <Next> to the next step. If you already installed USB driver, please unselect "GPS Data Log Device Driver."



4. Click <Next> if you want to install the program in default target folder or you can click <Browse> to change the install folder.

Qstarz Travel Recorder PC Utility V4.2 Setup	_ 🗆 🛛
$\label{eq:choose Install Location} Choose the folder in which to install Qstarz Travel Recorder PC Utility V4.2 \ .$	
Setup will not all Qotars Travel Recorder PC Ubliny V4.2 in the following folder. To in different folder, click Browse and select another folder. Click Next to continue.	stal in a
Destination Folder Ctiprogram Fles(qstarz) Travel Recorder PC Utility (M) Ercover	
Space required: 23.5MB Space available: 22.5GB	
< Back Next >	Cancel

5. Give a folder's name for quick links in start menu and click <|nstall> to install the program.

Qstarz Travel Recorder PC Utility \	/4.2 Setup	
hoose Start Menu Folder		1
Choose a Start Menu folder for the Qstarz T	ravel Recorder PC Utility V4.2 shortcuts.	1
Select the Start Menu folder in which you we		You
can also enter a name to create a new folde	r.	
Qstarz Travel Recorder V4		
88485oft		
Accessories		
activePDF		
Administrative Tools		
Advanced Registry Optimizer avast1 Antivirus		
avast! Antivirus AWirons Pro		
Beyond Compare 2		
CVSNT		
DVD-RAM		
EPSON		
ezTour		~
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6. When the utility installation is completed, please click <Finish> to reboot. Or you can also reboot later by selecting "No, I want to reboot later by myself."



6-2. Install Google Earth

BT-Q1300 supports showing your travel path directly on Google Earth. Please go to http://earth.google.com for the free download of Google Earth, and then install it to your computer. For the operation procedure of Google Earth, please refer to http://earth.google.com/support/

7. Start to use

7-1. Fully charge the battery when using at the first time

A fully charged battery can last up to 12 hours continuously operation.

7-2. Connect BT-Q1300 with your PC

1. Power on BT-Q1300

2. Please connect BT-Q1300 with your PC by mini USB cable.

7-3. Start the software utility

- NOTE 1: Before starting the software utility, please make sure that the USB driver and the software utility has been installed properly.
- NOTE 2: PC Utility V4 only supports BT-Q1300. Any intention to use PC Utility V4 connecting GPS units other than BT-Q1300 would result in software disconnection automatically.
- NOTE 3: PC Utility V3 is not compatible with BT-Q1300. Please don't make use of it with BT-Q1300.

Users have to input product key at the first time of use. <u>The product</u> <u>key is located on the envelope of the driver CD.</u>



Important Notice: Do not lose your Product Key. Keep the packaging, or write the number down and keep it in a safe place.

For more software instructions, please refer to the software user's manual in driver CD or at Help -> Users Manual after software installation.

For A-GPS functionality, please also refer to User's Manual or Quick Guide.



8. Useful reference Applications on the internet

8-1. locr GPS Photo

BT-Q1300 is the member of locr GPS Photo certified product. This utility can integrate travel log and digital photos by date/time to show your photos on the map directly. After the integration, the current GPS coordinates also can be imported to your digital photos for the further application. Please find the installation file for Windows XP/Vista or Symbian system in Qstarz GPS CD. Go to http://www.locr.com for the further information.

	- 113.0			
ector				
Date	Name	Latitude	Longbade	Hage
INC_9113UPC	23.03 2000 13:15:23		10.53203	x
INC 9214UPC	23.03 2000 10:50:47		10,54344	x
ING \$215UPG	20.03 2000 10:51 07		10.53255	x
ING_9216JPG	23.08 2006 18:51:12		10,53255	х
IMG_9217.JPG	23.08 2006 19.51 22		9,97326	x
INC_9211.JPG	20.042006185100		10,53256	×
ING_9090UPG	28.03 2006 19:25:25		10,53257	×
ING_9401JPG	23.08 2006 19:25:53 23.08 2006 19:25:56		10,53557	x
ING_9403.JPG	23.03.2006 19.25.06		10,53425	x
ING \$465.JPG	23 33 2006 19 26 14		10 53530	÷
ING 5411,JPG	23 08 2006 19 26 51		10.53710	T
MG_3414JPG	23.93 2006 13.26.56		10.53723	1
ING \$415JPG	23.08 2006 19.27.00		10.53723	
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		100.00	10.04.2007.20.0 23.08.2006.19.7	729
Name 20070417_15270 20070410_10592	5.TXT 10.04.2007.2	100.00	10 94 200 ° 20 0 21 98 2006 19 2	729
Name 20070417_15270 20070410_10592	5.TXT 10.04.2007.2	100.00	10. 24 2007 22 0 27 38 2006 19 2	725

8-2. GPSBabel

This utility can transfer your NMEA file to GPX file or other format. Please go to <u>http://www.gpsbabel.org</u> for free download.





8-3. SPORTSMATE

This web site can share your travel log with your friends. Before sharing your trip, please apply a new account first. Please go to <u>http://www.ttsm.com</u> for the further information.



8-4. JetPhoto Studio

This utility can integrate travel log and digital photos by date/time to show your photos on the map directly. After the integration, the current GPS coordinates also can be imported to your digital photos for the further application. Please go to

http://www.jetphotosoft.com for free download.





8-5. VeoGeo

This website allows you to combine travel log and video by date/time to show your video on the map directly. Please go to <u>www.veogeo.com</u> for further information and register for a free new account



8-6. RaceChrono

RaceChrono is a GPS based lap timing software for Nokia S60 smart phones. It can be used to measure lap times on almost any vehicle and track. It can be used to measure laptimes for example for motorbikes, bicycles, cars, water jets and quadbikes. The most important of all, it supports SHz update rate.

Please find the installation file in Qstarz GPS CD or go to <u>http://www.racechrono.com</u> for the further information.



RaceChrono version 1.00 released!

I'm very happy to announce that the version 1.00 is now released! It has simplified live timer, improved optimal lap browsing, better OBD-II support and session exports in GPX format. Also it features many user interface improvements!

FAQ: Which Phones does RaceChrono work on?

A: RaceChrono works on phones with Nokia S60 2nd edition feature pack 1 and above, or Nokia S60 3rd edition.

FAQ: How does RaceChrono work?

RaceChrono uses GPS position data to determine lap times and performance.

Read more



9. Trouble Shooting

Question	Answer
Can BT-Q1300 be used to navigate when travel log is on?	Yes, you can use BT-Q1300 to navigate when travel log is on simultaneously.
I lost my travel charger. Where can I find replacements for both?	DC Input range of BT-Q1300 is 4.5~5.5V. You can use a travel charger which support DC output range from 4.5~5.5V. You can also use a common mini USB cable to charge your unit via the laptop.
How can I know if my memory is full?	If you see the Log LED is steady lighted up, which means the memory is full.
Can the logged data be downloaded by <i>Bluetooth</i> ?	Actually it's okay for Q1300 to download data via <i>Bluetooth</i> interface. However, since it is not stable and with lower download performance than that of USB interface, we don't officially admit this feature.

10. Appendix

Navigate as a Bluetooth GPS Receiver with Handheld devices

10-1. Activate the *Bluetooth* function in your PDA/Smart phone or PC

Before activating the *Bluetooth* function in your PDA/PC, please switch BT-Q1300 on for paring and check if your device is equipped with *Bluetooth* function. If not, you may need to acquire an optional CF/SD *Bluetooth* card or *Bluetooth* dongle.

NOTE 1:

BT-Q1300 would be identified as"Qstarz GPS" under Bluetooth Manager. In further use, you just need to click it to connect to this GPS Travel Recorder.

NOTE 2:

The pairing procedure is required to execute in the first time only. And the pass code is "0000" if required.

NOTE 3:

Select correct com port and baud rate : 115200 under your navigation software (Most of navigation software can auto-detect Bluetooth Com port, so you do not need to setup manually).



10-2. Create *Bluetooth* Setting (Windows Mobile 5/6 for Pocket PC)

1. Switch BT-Q1300 on.

2. From the **Start** menu, click **Settings**. On the **Connections** tab, click the *Bluetooth* icon

3. On the **Devices** tab, click **Add New Device...** The settings application will search for your device. When it is found, click **Next.**

🔧 Settings 🛛 🖓 🗮 🎢 📢 💀
Bluetooth
Tap Add new device to search for other Bluetooth devices. Tap on a device to modify its settings.
Add new device
Devices Mode COM Ports

4. Enter the passcode "0000" and click **Next.**

😚 Settings		₽#	7 ∥ 4€	
Enter Passcode				0
Enter a passcode connection with G	to estab PS .	lish a se	cure	
Passcode:				
Back			Next	

5. On the **Partnership Settings** screen, select **Serial Port** and click **Next**



6. Select the **Mode** tab and check the **Turn on** *Bluetooth* checkbox if it is not already checked.





7. Select the COM Ports tab and click New Outgoing Port

🔧 Settings 🛛 🗭 📰 🏹 帐 ok
Bluetooth
After pairing with a device, to set up a COM port tap New Outgoing Port. For other options, tap and hold an existing port.
New Outgaing Fact
Devices Mode COM Ports

8. Select "Qstarz GPS" from the Add a Device list and click Next



 Uncheck Secure Connection. From the Port drop-down list, select a port number. Remember the port you choose. You will need it when you configure the GPS Intermediate Driver.

10. Click **Finish** and exit the *Bluetooth* Control Panel item.



10-3. Configure the GPS Intermediate Driver

The GPS Intermediate Driver is a software layer between a Windows Mobile application and the GPS hardware drivers. This allows applications to work with a variety of GPS hardware. The GPS Intermediate Driver uses the registry to determine what COM port should be used to communicate with the GPS hardware. The recommended way to configure the registry to work with your GPS device is the GPS Settings icon



1. From the **Start** menu, click **Settings**. On the **System** tab, click the **External GPS** icon. On some devices, this item has a different name.

2. On the **Programs** tab, select any available COM port from the **GPS Program Port** drop-down list. The GPS data sent through the GPS Intermediate Driver is streamed to applications through this port. This should not be the same port that your GPS receiver is configured to use. If your application

🄧 Sett	ings	Ģ	ŧ	7 ∥ 4€	ok
GPS Set	tings				
Choose the port that programs will use to obtain GPS data. Any program that uses GPS will need to communicate with this port.					5
GPS progr	am port:				
COM0					•
0	Hardware	Access			
Programs	maruWare				

can't receive GPS data stream, leave **GPS Program Port** for empty. Applications will use **GPS Hardware Port** as communication port.

3. On the **Hardware** tab, select the COM port BT-Q1300 is configured to use from the **GPS Hardware Port** drop-down list

😚 Settings 💿 🛱 🏹 📢	ok				
GPS Settings					
Specify the hardware port to which your GPS device is connected. For more information, see the GPS device manufacturer's documentation.					
GPS hardware port:					
сом6	•				
Baud rate: 4800	-				
Programs Hardware Access					

On the Access tab, make sure that the Manage GPS Automatically checkbox is checked



10-4. Start your navigation software

Activate your navigation software and make sure to select the correct "COM Port".

NOTE 1:

In the map software such as TomTom, you might need to change preference and set "Other Bluetooth GPS Device" according to PDA/phone model. In some case please consult map software company to vary the setting if you have issue on positioning.

NOTE 2:

There might be specific setting requirement per navigation software. Such as Tomtom, please delete other GPS settings under Tomtom software, and keep one only.



10-5. Switch to eXtreme 5Hz sport mode by QstarzGpsView software application

eXtreme 5Hz sport mode allows your GPS to get the same or even higher positioning and accuracy ability during eXtreme sports.

- 1. Connect BT-Q1300 with your PC by mini-USB cable.
- 2. Switch BT-Q1300 on.
- 3. Execute QstarzGpsView.exe from Driver CD "Tools\QstarzGpsView.exe".
- 4. Select COM port (refer to software manual, item 5-1 II) and set the baud rate to **115200**.

Please choose: 115200	▼ COM	11 🕶 On	N	hot
Trease choose. House				100
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.∢ Date	Latitude	Mode		SNR
Date			60 1	SNR
	Latitude Longitude	Mode Speed	50 40	SNR
Date	Longitude PDOP		50	SNR

5. Click **On** button to establish the communication between BT-Q1300 and your PC. If the connection is successful, the NMEA stream will keep showing.



6. Click Setup tab, and you can change to eXtreme Sport mode under Fix Update Rate. The higher number means the device can bear extremer environment. After select an update rate, click Set to save the setting.

GPSview v1.1.0	
Status Seloc	SUSS Some VAAS / EBROS / MSAS SVI are under test, in order to a cod come expensented SVI affect or a potentiance, or under ABS VI affect or a potential sVI and unare 10 test Some expensented SVI, plaque sel "Fast" mode. I vriagely Test Set Dury About OstarzGpsView
Version:	Version 1.1.0 2007 Feb-7th
Query	



10-6. Safety Notices

R&TTE / CE Notice

This device is confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amendment Directive(93/68/EEC), the procedures given in European Council Directive 99/5/EC and 89/336/EEC.

The equipment was passed. The test was performed according to the following European standards: EN 300 328-2 V1.2.1 (2001-08) EN 301 489-1 V1.4.1 (2002-04) / EN 301 489-17 V1.2.1 (2002-04) EN 50371: 2002 EN 60950: 2000

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

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