

# Enabling Technologies

Juliet 120 and Romeo 60

Embosser Manual



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# ETC Romeo 60 & Juliet 120 Embosser Installation

## Safety Information

- Place the printer on a secure, stable surface.
- Do not block the ventilation inlets and outlets, so proper airflow can be maintained.
- Connect the embosser to a grounded power outlet only.
- Sound Enclosures are recommended for reducing noise level. (purchased separately)

## Getting Started

### Unpacking of the Embosser

Please unpack the embosser gently and check to make sure the items listed below are present.

**Save the packing material and ship lock.** The warranty on parts remains valid only if the embosser is transported in original packaging and transport lock is properly in place.

#### The following items are included in the box:

- Embosser
- User manual
- Quick start guide
- ETC USB thumb drive
- Power cord
- USB cord
- External power supply for Juliet 120 or Romeo 60

### Start-Up your new embosser

- Power on the embosser (without connecting the USB cord)
- The "Wizard to remove transport lock" will start automatically. The transport lock is located at the back left corner of the embosser. It is a metal rod with a green tip whose end is pointing down and latched under a metal spring clip. To remove the transport lock rotate the green tip of the rod towards the Wi-Fi antenna and pull straight out. You can store the lock in the two metal spring clips adjacent to the power input connector.
- Follow the wizard steps. When completed the embosser will re-start and is ready to be used.

ETC strongly recommends you connect your embosser to the Internet. This way your embosser will notify you automatically when new upgrades are available.

# Backlighting

## Back Lighted Text on All Models

**ON** – Lighted when embosser is on.

**OUT OF PAPER** – Lighted when no paper is detected.

**BLUETOOTH, WI-FI, NETWORK** - Blinking when available, steady when connected

**dB** - Blinking during translation, lighted during printing with dB

**UPDATE** - Activated when the embosser is network connected. Lighted when an update is available and blinking during a firmware upgrade

**PAPER JAM** - Lighted when there is a paper jam

**PAPER EDGE** – Leading edge of paper detected

**PAPER MOVE** – Indicates paper is moving through embosser

**HEAD** – Indicates solenoids/print head move

**ERROR** - Lighted when there is an error, press HELP for more info

# Speech Feedback

The speech feedback uses English mode by default and may be changed into other languages from the control panel. ETC embossers use Acapela synthetic speech that support the following languages; English (India, UK, US) Arabic (UAE), Chinese (China), Danish, Dutch, Finnish, French (France), German, Greek, Italian (Italy), Japanese (Japan), Korean, Norwegian, Polish, Portuguese (Brazil, Portugal), Russian, Spanish (Caribbean, Colombia, Mexico, Spain), Swedish and Turkish.

# Firmware Upgrade

ETC embossers may be upgraded to the latest firmware free of charge. It is highly recommended to upgrade the firmware when installing a new ETC printer. The upgrade includes bug fixes and new or improved functionality. On ETC website [www.braille.com](http://www.braille.com) you will find more detailed information.

## Upgrade via Internet connection

When the ETC Romeo 60 & Juliet 120 embossers are connected to an active network port or Wi-Fi connection with Internet access, it will automatically check for an upgrade. When the UPGRADE text is lighted, a new upgrade is available.

Start upgrade by selecting: Menu / User Service / Firmware Upgrade / Firmware Upgrade from Internet / OK to start

## Upgrade via USB memory

- Download the latest firmware from [www.braille.com](http://www.braille.com)
- Save the firmware package to a USB memory stick
- Insert the USB memory into the embosser
- Start upgrade by Menu / User Service / Firmware Upgrade / Firmware Upgrade from USB Memory Stick / OK to start

The UPGRADE text flashes during the upgrade process and voice feedback will activate. Do NOT power off the embosser during an upgrade. The upgrade process may take 5-15 minutes and is completed when the embosser automatically re-starts.

# ETC Printer Driver

The ETC Romeo 60 & Juliet 120 software and printer drivers for Enabling Technologies embossers may be installed from the USB memory stick included with the embosser or by downloading from [www.braille.com](http://www.braille.com).

## Port Setup

### Install to USB Port

All ETC embossers require a printer driver to function properly.

**Install the ETC printer driver on your computer before connecting the embosser to the USB port.**

To find the **current version of the ETC printer driver installed in your PC**, for your embosser, access the control panel in your computer. Select Control Panel / Uninstall a Program/ Enabling Technologies Driver. The current version number is presented in the right hand column listed under versions. *If this is the first installation of the driver, then please follow the steps outlined below.*

### Windows

Install Enabling Technologies Driver 8.x or higher suitable for Windows XP, Vista, Win 7, 8 and 10

- Close all applications on your PC
- Download Enabling Technologies Driver 8.x or higher
- Right-click on the driver installation file and select "Run as administrator" and follow the installation wizard
- **Connect** the supplied USB cord
- **Power on** the embosser
- For Windows Vista and later versions, the Plug & Play **Found new hardware** wizard will complete the USB installation

### Mac OS X

Install IndexBraille-ETC **printer driver for Mac OS X 10.8**

- Double-click on the printer driver file
- Follow the installation guide for Mac OS X application
- Go to **System Preferences** and select **Print & Fax**
- Connect the embosser to the computer via the USB port
- Start up the embosser and wait for the start-up message
- Press the **+** button in the dialog box
- Click on the embosser name
- Choose **Select Printer Software...** in the list box **Print Using:**.
- Select your embosser model in the dialog
- Press **OK**
- Press **Add**
- Exit System Preferences to complete the embosser installation
- Connect the supplied **USB cord** to the USB port

## Linux (Debian/Ubuntu)

Install Linux printer driver 1.1.0

- Download the Linux printer driver
- Install the printer driver following the standard installation process in your Linux version.
- Connect the supplied **USB cord** to the USB port
- Follow the general installation process for your Linux distribution.

## Network Connections

### Connect to Wired Network

Connect the embosser to your network. If the network supports Dynamic Host Configuration Protocol (DHCP) the embosser will now receive a dynamic IP address.

Print the embosser's IP address by Pressing the HELP key plus the "1" or use Menu / Print / Print Test Document / Print Network Information. The network information page prints in letter graphics and will include the following information:

- Embosser model
- Serial number
- WIRED NET
  - Mac address
  - DHCP on/off
  - IP address
  - netmask
- WI-FI NET
  - Mac address
  - DHCP on/off
  - IP address
  - netmask

### Connect to Wi-Fi Network

#### Wi-Fi setup file

Edit the text file "ESC\_C-RegisterWiFi.ibe" which is located on the USB thumb drive in the Support Files folder with Notepad++.

The file looks like this: **ESCC"SSID""NETWORKNAME","PassPhrase""PASSWORD";**

Change "NETWORKNAME" to the names of your Wireless network, the SSID name is case sensitive and may contain spaces.

Change "PASSWORD" to the password of your wireless network, the PassPhrase is case sensitive.

After the file is edited send the file to the embosser using Windows file explorer by right mouse clicking on the file and select send to "direct-Braille".

You can now get the Wi-Fi network IP address of the embosser by pressing the HELP key followed by the 10 key on the embosser.

## WPS

Connect the embosser to a Wireless protected setup (WPS). To connect to a WPS select: MENU / Communication / Wi-Fi Network / Turn ON Wi-Fi network then to enable WPS select: Enable Wireless protected setup and press OK. Within 2 minutes, press the WPS button on your router, then the embosser will connect to the internet.

## Converting to Braille

For Braille mathematics, music, tactile graphics, complex documents and proof reading a separate braille translator is recommended.

## External Braille Translator

If you prefer to use an independent Braille translator, the majority of Braille translators available have good functionality with ETC Braille embossers. For more information please check the compatible braille translators list on [www.brailleur.com](http://www.brailleur.com)

Direct-Braille tool, **dB**, is a direct printing application to emboss standard word documents in braille. **dB** is free of charge and included in the printer driver package. The text-to-braille translation, braille page formatting and page numbering are done automatically by **dB** as this function is embedded inside your ETC embosser.

There is no need to adapt the file for braille printout.

When using **dB**, the translation language and Braille Grade (1 or 2), formatting, page number and other layout settings are established following the settings in the **active layout** of your ETC embosser.

## direct-Braille dB Translator

### **dB supports:**

- Braille in grade 0 (computer), 1 (literary) and 2 (contracted)
- Word (\*.doc) files
- Word XML (\*.docx) files
- PDF (\*.pdf) files
- Text (\*.txt) files
- Page numbering
- Volume handling (for braille books)
- ETC embossers

**dB** uses the Liblouis Open Source Braille translation system which supports the majority of the worldwide languages.

[Link to Liblouis web site](http://www.liblouis.org/)



## Emboss with dB in Windows

- Save and close the file in Word as 97-2003 (.doc) format
- Right-click on the file from the list, select direct-Braille
- Select your embosser model and click OK
- The file will now be transmitted to the selected ETC embosser
- The flashing **dB** icon indicates ongoing text-to-braille translation process
- Embossing of the braille document starts, the lighted **dB** icon indicates the use of **dB** for the document

## Emboss with dB in Mac

- Open the document in your preferred editor/viewer program (Ex. Preview OS X)
- Go to file, select Print and select an installed ETC embosser
- The file will now be transmitted to the selected ETC embosser
- The flashing **dB** icon indicates ongoing text-to-braille translation process
- Embossing of the braille document starts, the lighted **dB** icon indicates the use of **dB** for the document

## Emboss with dB in Linux

- Open the document in your preferred editor/viewer
- Go to file, select Print and select an installed ETC-Index embosser and press OK
- The file will now be transmitted to the selected ETC-Index embosser
- The flashing dB icon indicates ongoing text-to-braille translation process
- Embossing of the braille document starts, the lighted **dB** icon indicates the use of **dB** for the document

# Paper Handling

All ETC embossers support paper weights of 80-125 lb, considering as reference Letter size paper. You can use almost all sizes of tractor fed paper, since your ETC embosser is able to print horizontally and vertically.

To inquire about the ability to emboss with heavier materials, please contact us.

## Supported Paper Sizes

ETC embossers are specialized to emboss the best braille quality using tractor fed paper. ETC Juliet 120 and Romeo 60 handle theoretically unlimited length of paper. For practical reasons menu is limited to 24" length.

Maximum paper width is physically limited to 12.5".

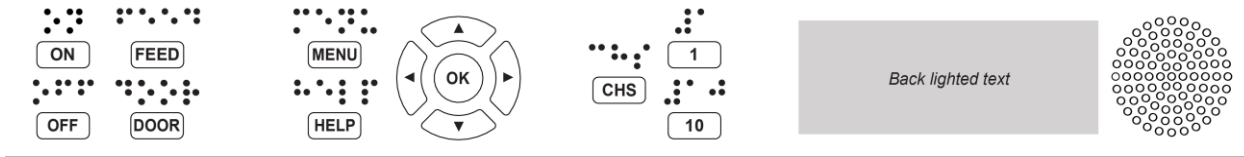
For practical reasons the minimum width allowed is 4".

In between, all the combinations of length and width are available for use

## Paper Loading

Procedures	Paper Loading
<p>Juliet 120 and Romeo 60 paper in</p>	<p><b>Paper in offset</b></p> <ul style="list-style-type: none"> <li>• Open the lid</li> <li>• Open the right and left tractors</li> <li>• Load paper and close the tractor lids</li> <li>• Release the lock on the right tractor and adjust the position of the right tractor according to the paper width</li> <li>• Stretch the paper by pulling the right tractor</li> <li>• Lock the right tractor</li> </ul>
<p>Juliet 120 and Romeo 60 paper out</p>	<p><b>Paper out offset</b></p> <ul style="list-style-type: none"> <li>• Hood with cutting mechanism</li> <li>• Floor standing hood</li> <li>• Paper remains in print head position</li> </ul>

# Control Panel



## Menu Summary

### About the ETC Menu

- **ON key**
  - **Blinking ON**, indicate ongoing start up process
  - **Solid Light ON**, the embosser is on
- **MENU** - Open menu function
  - **Solid Light MENU** - Menu is open, use the arrow keys to move within the menu tree and wizards
- **OK** - to select or start a function
- When a function is completed the embosser goes into idle mode
- After **2** minutes in menu mode, without any keystrokes, the embosser will automatically cancel changes without saving and go into idle mode
- **HELP** - echoes information about the current state of the embosser
- **Solid Light HELP** - indicates if important information is available

## Key Functions

TYPE	KEYS	FUNCTION
GENERAL KEYS	<b>ON</b>	Power on Online mode Cancel MENU function without saving After Offline (OFF button), continues printing
	<b>OFF</b>	Stops embossing Power off, hold <b>OFF 5 seconds</b>
	<b>FEED</b>	Feeds to a new page Ejects a page
	<b>HELP</b>	Echoes help information After OFF, Echo remaining number of copies and pages Start remote support, hold HELP 15 seconds Start recovery mode, hold HELP during power on
MENU KEYS	<b>MENU</b>	Opens/closes MENU mode
	<b>Arrow UP</b>	Moves to next MENU item
	<b>Arrow DOWN</b>	Moves to next MENU item
	<b>Arrow LEFT</b>	Moves to a higher MENU level Moves to previous step in wizard
	<b>Arrow RIGHT</b>	Moves to lower MENU level Moves to next step in a wizard
	<b>OK</b>	Select, confirm, save, open, close and start
NUMBER KEYS	<b>1</b>	Normally " <b>1</b> " represents the value <b>1</b> . When it represents another value, it is presented by speech feedback.
	<b>10</b>	Normally " <b>10</b> " represents the value <b>10</b> . When it represents another value, it is presented by speech feedback.
	<b>CHS</b>	Toggle between increase and decrease. If you hold down the CHS key for 10 seconds the embosser will restart.

Double Keys	<b>OFF+FEED</b>	Stops embossing
	<b>FEED+FEED</b>	Places paper in emboss position
	<b>FEED+OFF</b>	Reverses the paper out of the embosser
	<b>HELP+HELP</b>	Prints help information in letter graphics and braille
	<b>HELP+CHS</b>	Toggle temporarily between English and other local speech feedback languages
	<b>HELP+MENU</b>	Echoes active Braille page layout
	<b>HELP+ON</b>	Prints hammer test page
	<b>HELP+OFF</b>	Safely remove USB memory stick
	<b>HELP+FEED</b>	Processes sensors toggle between on and off
	<b>HELP+1</b>	Prints network information page
	<b>HELP+10</b>	Echoes available embosser wired and/or Wi-Fi IP address
	<b>HELP+OK</b>	Establishes a local network between PC and embosser using USB connection
	<b>HELP + ARROW RIGHT</b>	Starts Wireless Protected Setup (WPS push button)
	<b>HELP + ARROW UP</b>	Prints internal parameter list
<b>HELP + ARROW DOWN</b>	Starts "Insert transport locking wizard". Follow wizard instructions, after completed the embosser will re-start.	

# Multiple Layouts to Customize

ETC embossers are equipped with 1-9 user defined adjustable layouts.

## Active layout

The active layout is the current one in use. All changes to the layout settings will be made in the active layout. The layout includes paper size, braille page setup; pagination parameters and **dB** text-to-braille language and grade (literary or contracted).

## Select active layout

Use the UP or DOWN key then press OK to select the active layout or you can open the menu tree and go to Braille Layout / Change Active Layout x / Select Layout 1-(9) and save by selecting OK.

The embosser will echo the layout name, page size and print type for the active layout

## Distributor layout

Setup the embosser to a specific distributor (region) setup by Menu / Braille Layout / Restore Layout / Restore Distributor Layout / Select Country / Select Distributor Name.

A distributor setup typically includes:

- Number of layouts
- All information specified in each layout wizard, most significant are;
  - Paper size
  - Print type, single/double sided, booklet etc
  - Text-to-Braille translation when using **dB**
  - Braille page layout, lines per page, characters per line, margins
  - Braille page number and position

## Menu Tree

MAIN MENU	SUB MENU	FUNCTION	INFO
Print	Print previous document	Print complete document	Number of copies
		Print part of document	From page to page
	Print from USB memory	Select a folder or document with arrow keys up/ down/ right (in)/ left (out), and press OK to print	Using active layout settings
	Print demo files	Select a file and print	The file name describes each document
	Print braille manual	Quick start guide User manual	Using active layout settings
	Print test document	Print, <i>embosser information</i>	
		Print, <i>hammer test</i>	
		Print, <i>braille layout</i>	
		Print, <i>network information</i>	
	Print service document	Print, internal parameter value list	

Braille layout	Edit active layout 1-9	Standard wizard	
		Advanced wizard	
	User defined paper	Wizard to create user defined paper	
		Delete user defined paper	
	Add layout	Add layout (Go into Edit Active Layout to edit the new layout)	The new layout gets the lowest available layout number
	Delete layout	Delete layout X	
	Backup layout	Backup layouts to USB memory	
		Backup layouts to internal memory	
	Restore layout	Restore layouts from USB memory	
		Restore layouts from internal system memory	
		Restore distributor default layouts	
		Restore ETC factory default layouts	
	Select active layout	Select the active layout	Layouts 1-9 may be defined



Communication	USB Memory	Press OK to safely remove USB Memory	
	Manage Wi-Fi network	Current Wi-Fi network	
		List known Wi-Fi networks	
		List Wi-Fi networks supporting WPS	WPS: Help + Arrow Right
		List all Wi-Fi networks	
	Wizard for wired network	Press OK to start	
	Speech feedback	Select Volume	low/ medium/ high
		Select language	From list

User service	Insert transport locking wizard	Insert transport locking wizard - press OK to start	
	Printing speed	Adjust printing speed from the list	
	Paper out settings	Paper out offset	Hood with knife
			Floor standing hood
			Paper remain in print head
		Wizard to adjust paper cutoff position	Hood with knife
	Firmware update	Firmware upgrade from Internet	
		Firmware upgrade from USB memory stick	
	Backup settings	Backup settings to USB memory	
		Backup settings to internal SD card	
Restore settings	Restore settings from USB memory		
	Restore settings from internal system memory		

Protected service	Command center	Start command center	
		Start service command center	
	Production test wizard	Wizard for test during production	
	Recovery	Start recovery mode	
	Remote support	Start remote support	

## Wizards in 2.0

Wizards are used to guide the user through setup, calibration, adjustment etc. All wizards follow the same user interface structure.

- Start a wizard by selecting it from the menu tree, then **press OK**
- Follow the wizard by pressing the **right arrow key**
- If there is a need to go back in the wizard, press the **left arrow key**. This will take you to the previous step.
- If a value should be edited within the wizard, **press OK to edit, arrow up / down to select and OK again to save**. The speech feedback will supply further instructions.
- Press **OK to start the automatic wizard process**
- Completed wizard is verified by the echo ***Wizard completed press OK to save***

### Layout Wizards

#### Standard Wizard

##### Edit Active Layout, Standard Wizard Example

Standard Wizard		
Paper size	Select from list <b>After changed paper size, all margins are set to zero</b>	User defined paper size may be defined in
Print type	Select from list <b>After changed print type, all margins are set to zero</b>	Double / single, Z-folded double / single Z-folded sideways single / double sided
Folding line	Select from list	Available when booklet print type is selected
Braille translation, dB	Select language, grade and version	Liblouis text-to-braille translation, G0=computer braille, G1=literary braille, G2=contracted braille
Lines per page	Select from list	
Top margin	Select from list	When space for margins are available
Braille page number	Select from list with position on the page	When top and/or bottom margins are available
Characters per line	Select from list	
Binding margin	Select from list	When space for a binding margin is available. In booklet format the minimum binding margin is <b>1 character</b>
Wizard completed	Press OK to save	

## Advanced Wizard

The additional items in an advanced wizard is marked with larger bold text.

Advanced Wizard		
Paper size	Select from list Changed paper sizes sets all margins to zero	User defined paper size may be defined
Print type	Select from list Changed print type sets all margins to zero	Double/single, Z-folded double/single, Z-folded sideways single/double sided
Folding line	Select from list	Available when booklet print type is selected
Line spacing	Select from list	Supports flexible line spacing
Braille cell size	Select from list	
Braille translation	Select language, grade and version	G0=computer braille, G1=literary braille, G2=contracted braille
Lines per page	Select from list	
Top margin	Select from list	Available when space for margins are available
Braille page number	Select from list with position on the page	
Characters per line	Select from list	
Binding margin	Select from list	When space for binding margin is available.  In booklet format the minimum binding margin is <b>1 character</b> .
Volume separation	Number of pages in each braille volume. Select from list	Divides a document into volumes. Each booklet holds a max of 80 pages per volume.
Braille volume number	Adds "V1" (Volume 1) on the left side of the braille page number	Enabled when: <ul style="list-style-type: none"> <li>• Braille page number is ON</li> <li>• Volume handling is ON</li> </ul>
Wizard completed	Wizard completed press OK to save	

# Factory Warranty Statement

Enabling Technologies warrants all parts and workmanship of our Braille Embossers to be free of defects for a period of one year (365 days) from date of invoice. This warranty is extended only to the original purchaser.

If your Enabling Technologies Braille Embosser requires service within the warranty period, Enabling Technologies provides our customers located in the United States with complimentary round trip shipping, via ground service, to and from our factory in Jensen Beach, Florida USA for any eligible warranty repairs.

## Approvals

### FCC Compliance

This device contains FCC ID: PVH0953

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna

- Increase the separation between equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Consult the dealer or an experienced radio/TV technician for help.

### IC compliance

This device contains IC: 5325-0953

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

this device may not cause interference, and this device must accept any interference, including interference that may cause undesired operation of the device. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits

### Conformité aux normes d'IC

Cet appareil est conforme à la(aux) norme(s) RSS sans licence d'Industry Canada.

Son utilisation est soumise aux deux conditions suivantes :

Cet appareil ne doit pas causer d'interférences et il doit accepter toutes interférences reçues, y compris celles susceptibles d'avoir des effets indésirables sur son fonctionnement. Conformément aux réglementations d'Industry Canada, cet émetteur radio ne peut fonctionner qu'à l'aide d'une antenne dont le type et le gain maximal (ou minimal) ont été approuvés pour cet émetteur par Industry Canada. Pour réduire le risque d'interférences avec d'autres utilisateurs, il faut choisir le type d'antenne et son gain de telle sorte que la puissance isotrope rayonnée équivalente (p.i.r.e) ne soit pas supérieure à celle requise pour obtenir une communication satisfaisante. Le dispositif de fonctionnement dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur pour réduire le risque d'interférences nuisibles à la co-canal systèmes mobiles par satellite, le gain d'antenne maximal autorisé pour les appareils dans les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la pire limite, et le gain d'antenne maximal autorisé pour les appareils dans la bande 5725-5825 MHz doivent être conformes avec le pire limites spécifiées à point-à-ponctuelles et non point-à-point de fonctionnement selon qu'il convient. Opération dans la bande 5600-5650 MHz n'est pas autorisée au Canada. Haute puissance radars sont désignés comme utilisateurs principaux (c.-à-utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou des dommages à dispositifs LAN-EL. Cet équipement respecte les limites d'exposition aux rayonnements IC RSS-102 définies pour un environnement non contrôlé. Il doit être installé et utilisé en maintenant une distance minimum de 20 cm entre le radiateur et votre corps.

## Bluetooth Qualification

This device contains Bluetooth module qualified as "Controller system" - QD ID 5817