Future Technology Devices International Ltd

USB to RS422 Serial Converter Cable

Datasheet
1 Description

The **USB-RS422** cable is a USB to RS422 levels serial UART converter cable incorporating FTDI’s FT232RQ USB to serial UART interface IC device which handles all the USB signalling and protocols. The cable provides a fast, simple way to connect devices with a RS422 interface to USB.

Each USB-RS422 cable contains a small internal electronic circuit board, utilising the FT232RQ, which is encapsulated into the USB connector end of the cable. The FT232RQ datasheet, [DS_FT232R](https://ftdichip.com/), is available at [https://ftdichip.com/](https://ftdichip.com/). The integrated electronics also include the RS422 transceiver plus Tx and Rx LEDs which give a visual indication of traffic on the cable (if transparent USB connector mould specified).

The other end of the cable is bare, tinned wire ended connections by default, but can be customised using different connectors to support various applications.

Cables are FCC, CE, UKCA and RoHS compliant.

The USB side of the cable is USB powered and USB 2.0 full speed compatible. Each cable is 1.8m long and supports a data transfer rate up to 3 Mbaud. Each cable supports the FTDIChip-ID™, with a unique USB serial number programmed into the FT232RQ. This feature can be used to create a security or password protected file transfer access using the cable. Further information and examples on this feature are available at [https://ftdichip.com/](https://ftdichip.com/) under FTDIChip-ID Projects.

The USB-RS422 cables require USB drivers, available free from [https://ftdichip.com/](https://ftdichip.com/), which are used to make the FT232RQ in the cable appear as a virtual COM port (VCP). This then allows the user to communicate with the USB interface via a standard PC serial emulation port (for example TTY). Another FTDI USB driver, the D2XX driver, can also be used with application software to directly access the FT232RQ on the cable though a DLL. This is illustrated in Figure 1.1.

![Diagram of USB-RS422 Cable](https://example.com/diagram.png)

**Figure 1.1 Using the USB-RS422 Cable**
USB TO RS422 SERIAL CONVERTER CABLE Datasheet
Version 1.4

2 Cable Part Numbers

Table 2.1 gives details of the available USB-RS422 cables.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>End Connector*</th>
<th>Cable details</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB-RS422-WE-1800-BT</td>
<td><strong>USB</strong> to UART cable with <strong>RS422</strong> level UART signals. Black cable, Transparent USB connector</td>
<td>Wire Ended (no connector)</td>
<td>1.8m cable, 9 core, UL2464 28 AWG, diam=5mm</td>
</tr>
<tr>
<td>USB-RS422-WE-5000-BT</td>
<td><strong>USB</strong> to UART cable with <strong>RS422</strong> level UART signals. Black cable, Transparent USB connector</td>
<td>Wire Ended (no connector)</td>
<td>5.0m cable, 9 core, UL2464 28 AWG, diam=5mm</td>
</tr>
<tr>
<td>* USB-RS422-CC-LLLL-CU</td>
<td><strong>USB</strong> to UART cable with <strong>RS422</strong> level UART signals. <strong>C</strong> = cable colour (<strong>B</strong> black or <strong>T</strong> transparent), <strong>U</strong> = USB connector colour (<strong>T</strong> transparent or <strong>B</strong> black)</td>
<td><strong>CC</strong> = Connector description.</td>
<td>LLLL = Length of cable.</td>
</tr>
</tbody>
</table>

Table 2.1 USB-RS422 Cables Descriptions and Part Numbers

* FTDI supports customised end connector designs. For more information, please contact FTDI Sales Team (sales1@ftdichip.com)

**Note:** The tolerance for the 1.8 meter length cable is +/-30mm and +/-50mm for 5 meter length cable.

2.1 Certifications

FTDI USB-RS422 cable is fully RoHS compliant as well as CE, UKCA and FCC certified.
Table of Contents

1 Description ........................................................................................................... 2
2 Cable Part Numbers .............................................................................................. 3
  2.1 Certifications ..................................................................................................... 3
3 Typical Applications .............................................................................................. 5
  3.1 Driver Support .................................................................................................. 5
  3.2 Features ............................................................................................................ 5
4 Features of FT232RQ applicable to USB-RS422 Cable ........................................ 6
5 USB-RS422-WE-LLLL-CU .................................................................................... 7
  5.1 USB-RS422-WE Connections and Mechanical Details ................................. 7
  5.2 USB-RS422-WE Cable Signal Descriptions ..................................................... 8
  5.3 USB-RS422-WE Electrical Parameters ............................................................ 8
6 Cable PCB Block Diagram ...................................................................................... 9
7 USB-RS422 Schematic .......................................................................................... 10
8 Contact Information .............................................................................................. 11
Appendix A - Cable EEPROM Configuration ......................................................... 12
Appendix B - References ......................................................................................... 13
  Document References ............................................................................................ 13
  Acronyms and Abbreviations ................................................................................. 13
Appendix C - List of Figures and Tables ................................................................ 14
  List of Figures ........................................................................................................ 14
  List of Tables ......................................................................................................... 14
Appendix D - Revision History ............................................................................... 15

Copyright © Future Technology Devices International Limited
3 Typical Applications

- USB to serial RS422 level converter.
- Upgrading legacy peripherals to USB.
- Interface Microcontroller UART or I/O to USB.
- Interface FPGA or PLD to USB.
- USB Instrumentation PC interface.
- USB industrial control.
- USB password protected file transfers.

3.1 Driver Support

Royalty free VIRTUAL COM PORT (VCP) and D2XX Direct Drivers are available for the following Operating Systems (OS):

- Windows
- Linux
- Mac
- Android (J2xx / D2xx only)

See the following website link for the full driver support list including OS versions and legacy OS.
https://ftdichip.com/drivers/.

Virtual COM Port (VCP) drivers cause the USB device to appear as an additional COM port available to the PC. Application software can access the USB device in the same way as it would access a standard COM port.

D2XX Direct Drivers allow direct access to the USB device through a DLL. Application software can access the USB device through a series of DLL function calls. The functions available are listed in the D2XX Programmer's Guide document which is available from the Documents section of our website.

Please also refer to the Installation Guides webpage for details on how to install the drivers.

3.2 Features

- USB-RS422 converter cable provides a USB to RS422 serial interface with customised end connectors.
- Entire USB protocol handled by the electronics in the cable.
- EIA/TIA-422 communication interface with low power requirements.
- UART interface support for 7 or 8 data bits, 1 or 2 stop bits and odd / even / mark / space / no parity.
- Internal EEPROM with user writeable area.
- FTDI’s royalty-free VCP allow for communication as a standard emulated COM port and D2XX ‘direct’ drivers provide DLL application programming interface.
- X-On / X-Off software handshaking.
- Data transfer rates from 300 baud to 3 Mbaud.
- Support for FT232RQ FTDIChip-ID™ feature for improved security.
- Low USB bandwidth consumption.
- UHCI / OHCI / EHCI host controller compatible.
- USB 2.0 Full Speed compatible.
- -40°C to +85°C operating temperature range.
- Cable length is 1.80m or 5.0m.
- ESD Protection for RS-422 ‘I/O’s ±15kV Human Body Model (HBM) ±15kV EN61000-4-2 Air Gap Discharge ±8kV EN61000-4-2 Contact Discharge
- FCC, UKCA and CE compliant.
- Custom versions available on request (subject to MOQ).
- RoHS Compliant.
4 Features of FT232RQ applicable to USB-RS422 Cable

The USB-RS422 cable uses FTDI’s FT232RQ USB to serial UART IC device. This section summarises the key features of the FT232RQ which apply to the USB-RS422 USB to serial RS422 converter cables. For further details, and a full features and enhancements description refer to the FT232R Datasheet.

Internal EEPROM. The internal EEPROM in each cable is used to store USB Vendor ID (VID), Product ID (PID), device serial number, product description string and various other USB configuration descriptors. Each cable is supplied with the internal EEPROM pre-programmed as described in Appendix A - Cable EEPROM Configuration.

EEPROM Configuration. The internal EEPROM descriptors can be programmed in circuit, over USB without any additional voltage requirement. It can be programmed using the FTDI utility software called FT_PROG, which can be downloaded from FTDI Utilities on the FTDI website (https://ftdichip.com/). Additionally, there is a user area of the internal EEPROM available to system designers to allow storing of data (note that this is not modified by FT_PROG).

Lower Operating and Suspend Current. The FT232RQ has a low 15mA operating supply current and a very low USB suspend current of approximately 70μA. (Note that during suspend mode, the current drawn by any customised cable application which uses the USB supply, should not exceed 2.5mA to remain USB compliant).

Low USB Bandwidth Consumption. The USB interface of the FT232RQ, and therefore the USB-RS422 cables has been designed to use as little as possible of the total USB bandwidth available from the USB host controller.

FTDIChip-ID™. The FT232RQ includes the new FTDIChip-ID™ security dongle feature. This FTDIChip-ID™ feature allows a unique number to be burnt into each cable during manufacture. This number cannot be reprogrammed. This number is only readable over USB can be used to form the basis of a security dongle which can be used to protect any customer application software being copied. This allows the possibility of using the USB-RS422 cables as a dongle for software licensing. Further to this, a renewable license scheme can be implemented based on the FTDIChip-ID™ number when encrypted with other information. This encrypted number can be stored in the user area of the FT232RQ internal EEPROM, and can be decrypted, then compared with the protected FTDIChip-ID™ to verify that a license is valid. Web based applications can be used to maintain product licensing this way. AN232R-02 describes this feature.

Improved EMI Performance. The USB-RS422 cables are FCC, UKCA and CE certified.

Extended Operating Temperature Range - The USB-RS422 cables are capable of operating over an extended temperature range of -40º to +85º C thus allowing them to be used in commercial or industrial applications.
5 USB-RS422-WE-LLLL-CU

The USB-RS422-WE cable is un-terminated; it has bare and tinned wires.

The LLLL specifies the length of the cable in cm. The CU specifies the colour of the cable and the colour of the USB connector. The cable can be either Black or transparent. The USB connector comes with transparent plug because of the LED implemented inside but can be sold in black colour as well. For simplicity, the LLLL and CU have been dropped from the following descriptions.

5.1 USB-RS422-WE Connections and Mechanical Details

Figure 5.1 shows the cable signals and the wire colours for the signals on the USB-RS422-WE cable. Figure 5.2 shows dimensions in millimetres.

![USB-RS422-WE Connections diagram](image1)

![USB-RS422-WE Mechanical Details diagram](image2)

![USB-RS422-WE Cable images](image3)
5.2 USB-RS422-WE Cable Signal Descriptions

<table>
<thead>
<tr>
<th>Colour</th>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>GND</td>
<td>GND</td>
<td>Device ground supply pin</td>
</tr>
<tr>
<td>Brown</td>
<td>CTS+</td>
<td>Input</td>
<td>Clear to Send Control + (B), Input</td>
</tr>
<tr>
<td>Red</td>
<td>TXD-</td>
<td>Output</td>
<td>Data - (A) Output</td>
</tr>
<tr>
<td>Orange</td>
<td>TXD+</td>
<td>Output</td>
<td>Data + (B) Output</td>
</tr>
<tr>
<td>Yellow</td>
<td>RXD+</td>
<td>Input</td>
<td>Data + (B) Input</td>
</tr>
<tr>
<td>Green</td>
<td>RTS+</td>
<td>Output</td>
<td>Request To Send Control + (B), Output</td>
</tr>
<tr>
<td>Blue</td>
<td>RTS-</td>
<td>Output</td>
<td>Request To Send Control - (A), Output</td>
</tr>
<tr>
<td>White</td>
<td>RXD-</td>
<td>Input</td>
<td>Data - (A) Input</td>
</tr>
<tr>
<td>Grey</td>
<td>CTS-</td>
<td>Input</td>
<td>Clear to Send Control input - (A), Input</td>
</tr>
</tbody>
</table>

Table 5.1 USB-RS422-WE Cable Signal Descriptions

5.3 USB-RS422-WE Electrical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Receiver Input</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VCM</td>
<td>Common-mode input voltage range</td>
<td>-7</td>
<td>+12</td>
<td></td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>IN</td>
<td>Input Current</td>
<td></td>
<td>1.0</td>
<td></td>
<td>mA</td>
<td>VIN = +12V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-0.8</td>
<td></td>
<td></td>
<td>VIN = -7V</td>
</tr>
<tr>
<td>VTH</td>
<td>Differential Threshold Voltage, VTH</td>
<td>-0.2</td>
<td>+0.2</td>
<td></td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>VIHYST</td>
<td>Input Hysteresis</td>
<td></td>
<td>20</td>
<td></td>
<td>mV</td>
<td></td>
</tr>
<tr>
<td>RIN</td>
<td>Input Resistance, RIN</td>
<td></td>
<td>12</td>
<td>15</td>
<td>kΩ</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Transmitter Output</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOD</td>
<td>Differential Output Voltage, dVOD</td>
<td>1.5</td>
<td>5</td>
<td></td>
<td>V</td>
<td>With RL = 54Ω. CL = 50pF *</td>
</tr>
</tbody>
</table>

* - The 54 ohms is the equivalent of two 120 ohm termination resistors placed on each side of the transmission line and the input impedance of 32 receivers on the line.

<table>
<thead>
<tr>
<th>Description</th>
<th>Conditions</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD HBM</td>
<td>RS-422 Inputs and Outputs</td>
<td></td>
<td>±15 kV</td>
<td></td>
</tr>
<tr>
<td>EN61000-4-2ContactDischarge</td>
<td>RS-422 Inputs and Outputs</td>
<td></td>
<td>±8 kV</td>
<td></td>
</tr>
<tr>
<td>EN61000-4-2AirGapDischarge</td>
<td>RS-422 Inputs and Outputs</td>
<td></td>
<td>±15 kV</td>
<td></td>
</tr>
</tbody>
</table>

Table 5.3 USB-RS422-WE ESD Tolerance
6 Cable PCB Block Diagram

The block diagram for the small internal electronic circuit board, utilising the FTDI FT232RQ, which is encapsulated into the USB connector end of the cable, is shown in Figure 6.1.

Customised versions of the cable are also available. Users interested in customised versions of these cables should contact FTDI sales (sales1@ftdichip.com).

![Block diagram of PCB Used in the USB to RS422 Serial Converter Cable](image)
7 USB-RS422 Schematic

The detailed schematic of Converter Cable USB-RS422 is shown in Figure 7.1.

Figure 7.1 Schematic for USB-RS422 Converter Cable
8 Contact Information

Head Office – Glasgow, UK
Future Technology Devices International Limited
Unit 1, 2 Seaward Place, Centurion Business Park
Glasgow G41 1HH
United Kingdom
Tel: +44 (0) 141 429 2777
Fax: +44 (0) 141 429 2758
E-mail (Sales) sales1@ftdichip.com
E-mail (Support) support1@ftdichip.com
E-mail (General Enquiries) admin1@ftdichip.com

Branch Office – Tigard, Oregon, USA
Future Technology Devices International Limited (USA)
7130 SW Fir Loop
Tigard, OR 97223-8160
USA
Tel: +1 (503) 547 0988
Fax: +1 (503) 547 0987
E-mail (Sales) us.sales@ftdichip.com
E-mail (Support) us.support@ftdichip.com
E-mail (General Enquiries) us.admin@ftdichip.com

Branch Office – Taipei, Taiwan
Future Technology Devices International Limited (Taiwan)
2F, No. 516, Sec. 1, NeiHu Road
Taipei 114
Taiwan, R.O.C.
Tel: +886 (0) 2 8797 1330
Fax: +886 (0) 2 8751 9737
E-mail (Sales) tw.sales1@ftdichip.com
E-mail (Support) tw.support1@ftdichip.com
E-mail (General Enquiries) tw.admin1@ftdichip.com

Branch Office – Shanghai, China
Future Technology Devices International Limited (China)
Room 1103, No. 666 West Huaihai Road,
Shanghai, 200052
China
Tel: +86 21 62351596
Fax: +86 21 62351595
E-mail (Sales) cn.sales@ftdichip.com
E-mail (Support) cn.support@ftdichip.com
E-mail (General Enquiries) cn.admin@ftdichip.com

Distributor and Sales Representatives
Please visit the Sales Network page of the FTDI Web site for the contact details of our distributor(s) and sales representative(s) in your country.

Vinculum is part of Future Technology Devices International Ltd. Neither the whole nor any part of the information contained in, or the product described in this manual, may be adapted or reproduced in any material or electronic form without the prior written consent of the copyright holder. This product and its documentation are supplied on an as-is basis and no warranty as to their suitability for any particular purpose is either made or implied. Future Technology Devices International Ltd will not accept any claim for damages howsoever arising as a result of use or failure of this product. Your statutory rights are not affected. This product or any variant of it is not intended for use in any medical appliance, device or system in which the failure of the product might reasonably be expected to result in personal injury. This document provides preliminary information that may be subject to change without notice. No freedom to use patents or other intellectual property rights is implied by the publication of this document. Future Technology Devices International Ltd, Unit 1, 2 Seaward Place, Centurion Business Park, Glasgow G41 1HH United Kingdom. Scotland Registered Number: SC136640
Appendix A - Cable EEPROM Configuration

Each USB-RS422 cable is controlled by the FTDI FT232RQ IC. This FT232RQ device contains an EEPROM which contains the USB configuration descriptors for that device. When the cable is plugged into a PC or a USB reset is performed, the PC will read these descriptors. The default values stored into the internal EEPROM are defined in Table 0.1.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Vendor ID (VID)</td>
<td>0403h</td>
<td>FTDI default VID (hex)</td>
</tr>
<tr>
<td>USB Product UD (PID)</td>
<td>6001h</td>
<td>FTDI default PID (hex)</td>
</tr>
<tr>
<td>Serial Number Enabled?</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Serial Number</td>
<td>See Note</td>
<td>A unique serial number is generated and programmed into the EEPROM during device final test.</td>
</tr>
<tr>
<td>Pull down I/O Pins in USB Suspend</td>
<td>Disabled</td>
<td>Enabling this option will make the device pull down on the UART interface lines when the power is shut off (PWREN# is high).</td>
</tr>
<tr>
<td>Manufacturer Name</td>
<td>FTDI</td>
<td></td>
</tr>
<tr>
<td>Product Description</td>
<td>See note</td>
<td>USB-RS422-WE</td>
</tr>
<tr>
<td>Max Bus Power Current</td>
<td>90mA</td>
<td></td>
</tr>
<tr>
<td>Power Source</td>
<td>Bus Powered</td>
<td></td>
</tr>
<tr>
<td>Device Type</td>
<td>FT232R</td>
<td></td>
</tr>
<tr>
<td>USB Version</td>
<td>0200</td>
<td>Returns USB 2.0 device description to the host. Note: The device is a USB 2.0 Full Speed device (12Mb/s) as opposed to a USB 2.0 High Speed device (480Mb/s).</td>
</tr>
<tr>
<td>Remote Wake Up</td>
<td>Disabled</td>
<td></td>
</tr>
<tr>
<td>High Current I/Os</td>
<td>Enabled</td>
<td>Enables the high drive level on the UART and CBUS I/O pins.</td>
</tr>
<tr>
<td>Load VCP Driver</td>
<td>Enabled</td>
<td>Makes the device load the VCP driver interface for the device.</td>
</tr>
<tr>
<td>Invert TXD</td>
<td>Disabled</td>
<td>Signal on this pin becomes TXD# if enable.</td>
</tr>
<tr>
<td>Invert RXD</td>
<td>Disabled</td>
<td>Signal on this pin becomes RXD# if enable.</td>
</tr>
<tr>
<td>Invert RTS#</td>
<td>Disabled</td>
<td>Signal on this pin becomes RTS# if enable.</td>
</tr>
<tr>
<td>Invert CTS#</td>
<td>Disabled</td>
<td>Signal on this pin becomes CTS# if enable.</td>
</tr>
</tbody>
</table>

Table 0.1 Default Internal EEPROM Configuration

The internal EEPROM in the cable can be re-programmed over USB using the utility program FT_PROG. FT_PROG can be downloaded from https://ftdichip.com/. Users who do not have their own USB Vendor ID but who would like to use a unique Product ID in their design can apply to FTDI for a free block of unique PIDs. Contact FTDI support for this service.
Appendix B - References

Document References

DS_FT232R
AN232R-02

Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Terms</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM</td>
<td>General Purpose Input/output</td>
</tr>
<tr>
<td>DLL</td>
<td>Dynamic Link Library</td>
</tr>
<tr>
<td>EEPROM</td>
<td>Serial Peripheral Interconnect</td>
</tr>
<tr>
<td>EHCI</td>
<td>Enhanced Host Controller Interface</td>
</tr>
<tr>
<td>FPGA</td>
<td>Field Programmable Gate Array</td>
</tr>
<tr>
<td>HBM</td>
<td>Human Body Model</td>
</tr>
<tr>
<td>LED</td>
<td>Light Emitting Diode</td>
</tr>
<tr>
<td>OHCI</td>
<td>Open Host Controller Interface</td>
</tr>
<tr>
<td>RoHS</td>
<td>Restriction of Hazardous Substance Directive</td>
</tr>
<tr>
<td>USB</td>
<td>Universal Serial Bus</td>
</tr>
<tr>
<td>UART</td>
<td>Universal Asynchronous Receiver Transmitter</td>
</tr>
<tr>
<td>UHCI</td>
<td>Universal Host Controller Interface</td>
</tr>
<tr>
<td>VCP</td>
<td>Virtual COM Port</td>
</tr>
</tbody>
</table>
Appendix C - List of Figures and Tables

List of Figures

Figure 1.1 Using the USB-RS422 Cable ................................................................. 2
Figure 5.1 USB-RS422-WE Connections ................................................................. 7
Figure 5.2 USB-RS422-WE Mechanical Details (dimensions in mm) .............................. 7
Figure 5.3 USB-RS422-WE Cable images ................................................................. 7
Figure 6.1 Block diagram of PCB Used in the USB to RS422 Serial Converter Cable .................. 9
Figure 7.1 Schematic for USB-RS422 Converter Cable .............................................. 10

List of Tables

Table 2.1 USB-RS422 Cables Descriptions and Part Numbers ........................................ 3
Table 5.1 USB-RS422-WE Cable Signal Descriptions .................................................. 8
Table 5.2 USB-RS422-WE I/O Characteristics ............................................................ 8
Table 5.3 USB-RS422-WE ESD Tolerance .................................................................. 8
Table 0.1 Default Internal EEPROM Configuration ................................................... 12
### Appendix D - Revision History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Changes</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Initial Release</td>
<td>2009-02-11</td>
</tr>
<tr>
<td>1.1</td>
<td>Corrected Images</td>
<td>2009-05-14</td>
</tr>
<tr>
<td>1.2</td>
<td>Updated TT to BT (Transparent to black cable; Added Windows Support 7)</td>
<td>2010-01-18</td>
</tr>
<tr>
<td>1.3</td>
<td>Corrected Wire Gauge to 28AWG; Updated US and CN address</td>
<td>2020-05-21</td>
</tr>
<tr>
<td>1.4</td>
<td>Added UKCA and updated part number to FT232RQ. Updated driver support and links. Changed MPROG to FT_PROG.</td>
<td>13-07-2023</td>
</tr>
</tbody>
</table>