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1 Introduction

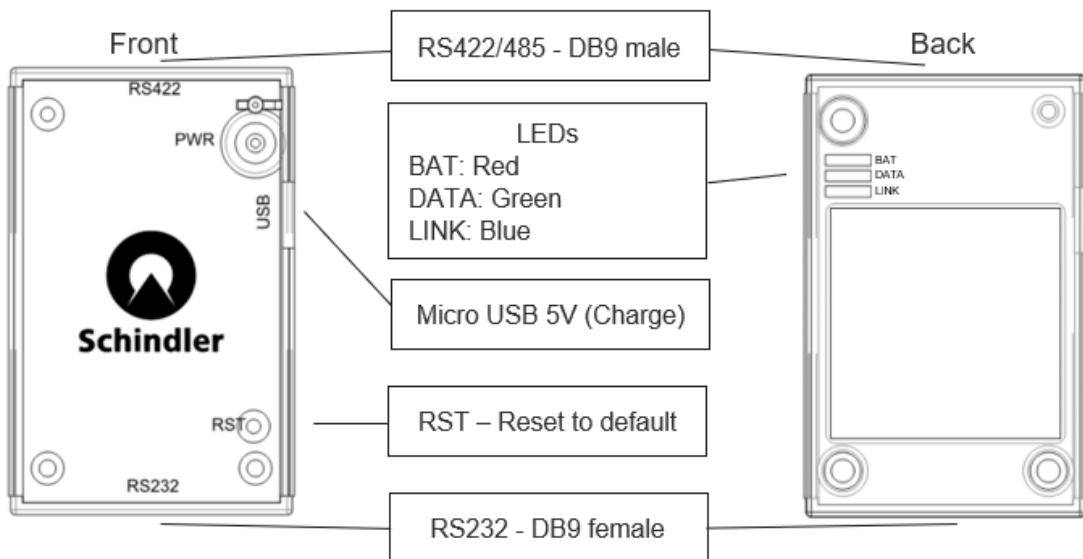
iSPECI BLE adapter is a device that allows you to connect the elevator controllers, by the means of a "RS232/RS422 – Bluetooth Low Energy (BLE) interface" to the mobile device / iSPECI of the field technicians.

The iSPECI BLE adapter has been developed to radically simplify connecting to elevator controllers using the iSPECI application.

No more cables that can break, no additional adapters to turn communication pins, it is a plug & play device. It is a Bluetooth BLE device with an approximate range of 10 meters.

2 Overview

2.1 iSpeci BLE Adapter (Version 1)

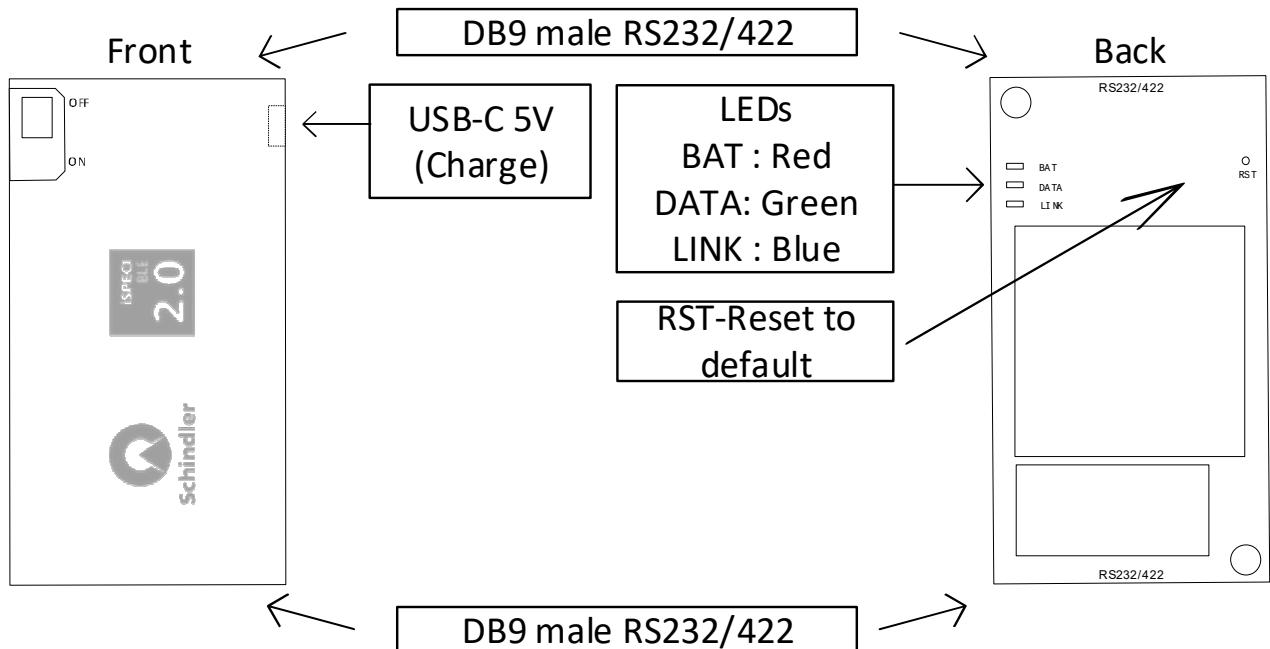


The adapter contains the following:

- ⇒ Bluetooth (BLE) interface 5.2 (see EFR32BG22 from Silicon Labs)
- ⇒ RS232 interface with connector DB9 female
- ⇒ RS422/485 interface with connector DB9 male
- ⇒ Micro USB connector (5VDC) for battery charging
- ⇒ RST button (reset button to be pressed in case the Bluetooth is not working)
- ⇒ PWR button (ON/OFF)
- ⇒ LEDs

LED	Flashing	ON
BAT	Battery Charge Level <20%	Battery Charging
DATA	Data Transmission	
LINK	Not Connected to iSPECI	Connected to iSPECI

2.2 iSpeci BLE Adapter V2



The adapter contains the following:

- ⇒ Bluetooth (BLE) interface 5.2 (see EFR32BG27 from Silicon Labs)
- ⇒ RS232 interface with connector DB9 female / male
- ⇒ RS422/485 interface with connector DB9 female / male
- ⇒ USB-C connector (5VDC) for battery charging
- ⇒ RST button (reset button to be pressed in case the Bluetooth is not working)
- ⇒ PWR switch (ON/OFF)
- ⇒ LEDs

LED	Flashing	ON	First 10 seconds
BAT	Battery Charge Level <20%	Battery Charging	Bat Level < 30%
DATA	Data Transmission		Bat Level > 30%<70%
LINK	Not Connected to iSPECI	Connected to iSPECI	Bat Level > 70%

3 How to use the Adapter

3.1 iSpeci BLE Adapter (Version 1)

1. Click on the PWR button to switch on the device (blue LINK LED will flash)
2. Plug iSPECI BLE Adapter into the diagnostic serial interface on control PCB
3. Activate Bluetooth on your mobile device
4. Open iSPECI app on your mobile device, tap “Connect”, choose “Wireless connection” and select “iSPECI BLE Adapter” from the list
5. When done, click on the PWR button for 5 seconds to switch it off manually and unplug the adapter (in case the iSPECI BLE Adapter is unplugged from control without switching it off, then it will switch off automatically after 15 min. It is recommended to turn it off manually to save battery time)

3.2 iSpeci BLE Adapter V2

1. Switch on the adapter with the PWR switch and check the charge status of the battery
2. Plug iSPECI BLE Adapter into the diagnostic serial interface on control PCB
3. Activate Bluetooth on your mobile device
4. Open iSPECI app on your mobile device, tap “Connect”, choose “Wireless connection” and select “iSPECI BLE Adapter” from the list
5. When you are finished switch off the BLE adapter with the PWR switch and unplug the Adapter (in case the iSPECI BLE Adapter is unplugged from control without switching it off, then it will switch off automatically after 5 min. It is recommended to turn it off manually to save battery time)

4 Charge the Battery

The iSPECI BLE Adapter can be charged with the included (or any other) MicroUSB/USB-C cable. A full battery charge will last for 8 hours of usage. A full recharge will take around 45 minutes.

The battery has a rated capacity of 300/500 mAh (minimal capacity > 280/480 mAh) and after 300 charging cycles the capacity will have at least 70% of its initial capacity.

Remarks:

Once the battery is defect, the complete adapter has to be replaced; no possibility to replace the battery.

5 Mechanical Dimensions

5.1 iSpeci BLE Adapter (Version 1)



iSPECI BLE Adapter	
Model: 1.0	
Input: 5V DC	
Made in Taiwan	
 RoHS COMPLIANT	
 CE	
FCC ID: XFIIISPECIADAPMOD1	
© Schindler property of Schindler	

Remarks: The label shown above is valid for the first released version, in case of modification on this adapter, then the model version will change (now the version is 1.0)

Important: The label has to be put on the adapter and also on the package.

Length: 58mm (48mm without the connectors)
Width: 31mm
Depth: 8.5mm
Weight: 62g

The housing must be at least UL94 HB.
The adapter must be at least IP20.

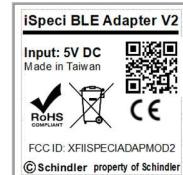
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5.2 iSpeci BLE Adapter Version 2



Remarks:

The label shown is valid for the first released version, in case of modification on this adapter, then the Model version will change (now the version is 2.0)



The label shown is the serial number and the Mac address of the Adapter.

Important: The label must be put on the adapter and also on the package.

Length: 65mm (55mm without the connectors)
 Width: 31mm
 Depth: 8.5mm
 Weight: 62g

The housing must be at least UL94 HB.
 The adapter must be at least IP20.

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6 BLE App. Programming Interface User's Commands

iSPECI BLE Adapter	
Peripheral Id	5C6DE224-55D3-8629-7F9E-7A2E173DE61D
Services	
Battery Service	180F
Device Information	180A
Schindler Service	BC407FA3-4B83-432A-ABDD-A845B4AFA772
Generic Attribute	1801
Generic Access	1800
OTA Service	1D14D6EE-FD63-4FA1-BFA4-8F47B42119F0
OTA Slot Manager Service	4EC89223-718A-4D0A-BBBD-6173357E6650

Service - Battery Service			
180F			
Characteristics	UUID	Description	Properties
Battery level state	2A1B	0x0000 (0%) - 0x6400 (100%)	read only

Service - Device Information			
180A			
Characteristics	UUID	Description	Properties
Manufacturer Name String	2A29	uConnect	read only
Model Number String	2A24	1.0 / 2.0	read only
Serial Number String	2A25	Unique BD-Address in HEX format XX-XX-XX-XX-XX-XX	read only
Firmware Revision String	2A26	2.3.1 / 3.0	read only

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Service - Schindler Service			
BC407FA3-4B83-432A-ABDD-A845B4AFA772			
Characteristics	UUID	Description	Properties
RX (Received Bytes)	64B872C8-DC45-11E8-9F8B-F2801F1B9FD1		notify only
Client Characteristic Configuration	2902		notify only
TX (Byte to Write)	64B86F08-DC45-11E8-9F8B-F2801F1B9FD1	max. 20 Bytes	Write
COM Setting Configuration	64B87444-DC45-11E8-9F8B-F2801F1B9FD1	8 Bytes (see paragraph 6.1/6.2)	read, write
Device Name	64B877DC-DC45-11E8-9F8B-F2801F1B9FD1	15 Bytes for ASCII Code	Read, Write
PIN	64B877DD-DC45-11E8-9F8B-F2801F1B9FD1	max. 6 Bytes in ASCII ("000000" or 0x303030303030 for disable)	Read, Write
MacID	64B87584-DC45-11E8-9F8B-F2801F1B9FD1	Not used yet	Read, Write
Device Control Parameters	64B877EE-DC45-11E8-9F8B-F2801F1B9FD1	2 Bytes	Write

Service – Generic Attribute			
1801			
Characteristics	UUID	Description	Properties
Service Changed	2A05		Notify only
Client Characteristic Configuration	2902		
Database Hash	2B2A		Read
Client Supported Features	2B29		Read/Write

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Service – Generic Access			
1800			
Characteristics	UUID	Description	Properties
Device Name	2A00		Read/Write
Appearance	2A01		Read

Service – OTA Service			
1D14D6EE-FD63-4FA1-BFA4-8F47B42119F0			
Characteristics	UUID	Description	Properties
OTA Control	F7BF3564-FB6d-4E53-88A4-5E37E0326063		Write
OTA Data	984227F3-34FC-4045-A5D0-2C581F81A153		Write

Service – OTA Slot Manager			
4EC89223-718A-4D0A-BBBD-6173357E6650			
Characteristics	UUID	Description	Properties
Upload slot	2E31606B-C6B6-469E-B9C1-39335A530ADA		Read/Write
Bootloader Slot	4FAB0BF0-4C27-48C8-807F-D0D094CD1DB3		Write

6.1 Com Setting Config

B0 (binary)	B0 (hex)	Port Selection
0b0000 0000	0x00	RS232 normal
0b0000 0001	0x01	RS232 normal
0b0000 0010	0x02	RS422
0b0001 0001	0x11	RS232 reversed
0b0001 0010	0x12	RS422
B1 (binary)	B1 (hex)	Flow Control
0b0000 0000	0x00	None
0b0000 0001	0x01	CTS/RTS

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B2 (binary)	B2(hex)	Stop delay [ms]
0b0000 0000	0x00	(old)5/(new)disable
0b0000 0001	0x01	7 / 2
0b0000 0010	0x02	10 / 4
0b0000 0011	0x03	15 / 6
0b0000 0100	0x04	30 / 8
0b0000 0101	0x05	50 / 10
0b0000 0110	0x06	100 / 12
0b0000 0111	0x07	200 / 14
B3 (binary)	B3 (hex)	Parity
0b0000 0000	0x00	None
0b0000 0001	0x01	Even
0b0000 0010	0x02	Odd
B4 (binary)	B4 (hex)	Baud rate
0b0000 0000	0x00	2400
0b0000 0001	0x01	4800
0b0000 0010	0x02	9600
0b0000 0011	0x03	14400
0b0000 0100	0x04	19200
0b0000 0101	0x05	38400
0b0000 0110	0x06	57600
0b0000 0111	0x07	115200
0b0000 1111	0x08	230400
B5 (binary)	B5 (hex)	Stop bits
0b0000 0000	0x00	1
0b0000 0001	0x01	1,5
0b0000 0010	0x02	2
B6 (binary)	B6 (hex)	Data bits
0b0000 0000	0x00	8 (fixed)
B7 (binary)	B7 (hex)	BreakTime (ms)*

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0b0000 0000	0x00	disabled
0b0000 0001	0x01	(odd) 1 / (new) 2
0b0111 0000	0x70	112 / 224
0b1111 1111	0xFF	255 / 510

*After break time (break state duration) there will be a delay of around 1ms before sending a message via Tx. When break time is enabled there will be always a break state before message is sent.
(available only with RS232 interface)

6.2 Device Control Parameters

Function	Bytes to write	Remarks
Reboot device	0xAA01	
Restore Default Setting	0xAA04	
Enable OTA	0xAA08	Not used
Put Device into Sleep	0xAA10	Not used

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7 Connectors on the Adapter

Following connectors are on the Adapter:

RS 232

Connector type: DSUB9 Female

Pin Number	Signal description
1	Not Connected
2	TXD (Transmitted Data)
3	RXD (Received Data)
4	Not Connected
5	GND
6	Not Connected
7	CTS (Clear to Send)
8	RTS (Request to Send)
9	Not Connected

RS 422

Connector type: DSUB9 Male

Pin Number	Signal description
1	Not Connected
2	Not Connected
3	B (differential received data)
4	Y (differential transmitted data)
5	GND
6	Not Connected
7	A (differential received data)
8	Z (differential transmitted data)
9	Not Connected

Battery charging

Connector type: MicroUSB 5 poles

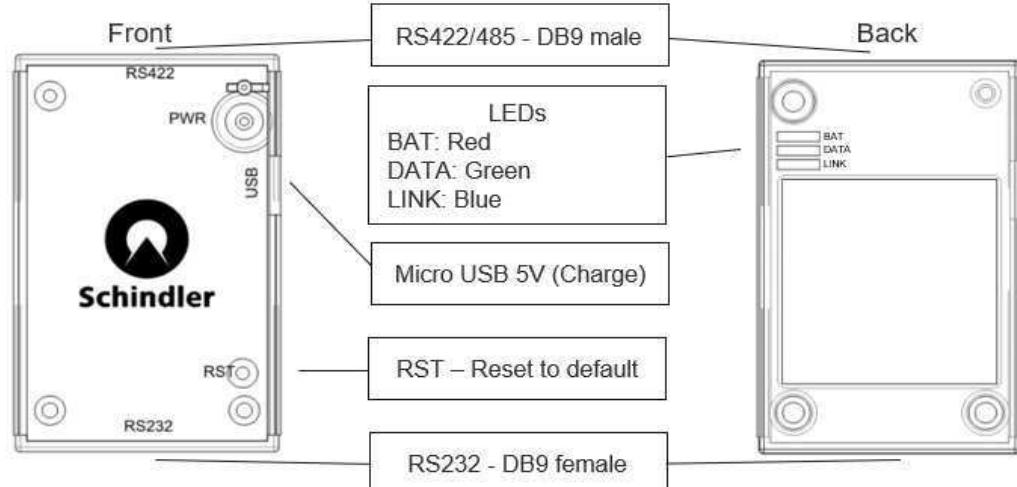
Pin Number	Signal description
1	5V DC
2	Not Connected
3	Not Connected
4	Not Connected
5	GND

8 Paper to be delivered with the adapter

8.1 iSpeci BLE Adapter (Version 1)

One paper, with following information, has to be delivered together with the adapter

iSPECI BLE Adapter Version 1



LED	Flashing	Solid
BAT	Battery level < 20%	Charging
DATA	Data transmission	
LINK	Not connected to iSPECI	Connected to iSPECI



First time charge the module fully (8 hours) as soon as you receive it.

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If more information is required, please scan the following QR Code

There is a QR code available directly on the adapter. In case you have any problems to read it, please use the zoom function of the mobile phone camera.

Shorted URL link has been used to generate the QR code on the adapter because of space problems. If you can not scan QR code that contains shorted URL link, please scan the above QR code on paper.

Address of EU Importer:

Schindler Supply Chain Europe Ltd.
Via della Pace 22
6600 Locarno
Switzerland

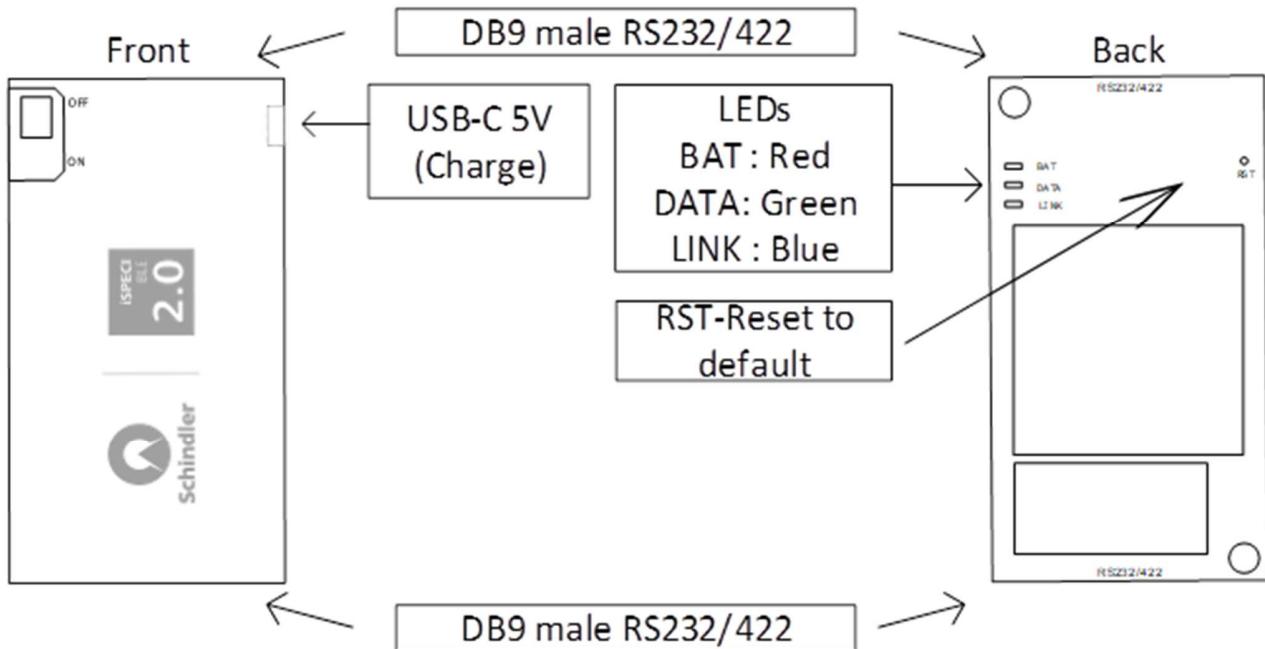
Address of the China Importer:

Schindler (China) Elevator Co. Ltd.
No. 555 Xingshun Road
Jiading District
201815 Shanghai

8.2 iSpeci BLE Adapter V2

One paper, with following information, has to be delivered together with the adapter

iSPECI BLE Adapter Version 2



LED	Flashing	ON	First 10 seconds
BAT	Battery Charge Level <20%	Battery Charging	Bat Level < 30%
DATA	Data Transmission		Bat Level > 30%<70%
LINK	Not Connected to iSPECI	Connected to iSPECI	Bat Level > 70%

First time charge the module fully (8 hours) as soon as you receive it.



If more information is required, please scan the following QR Code

There is a QR code available directly on the adapter. In case you have any problems to read it, please use the zoom function of the mobile phone camera.

Shorted URL link has been used to generate the QR code on the adapter because of space problems. If you can not scan QR code that contains shorted URL link, please scan the above QR code on paper.

Address of EU Importer:

Schindler Supply Chain Europe Ltd.
Via della Pace 22
6600 Locarno
Switzerland

Address of the China Importer:

Schindler (China) Elevator Co. Ltd.
No. 555 Xingshun Road
Jiading District
201815 Shanghai

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9 Environmental Conditions

Ambient temperature range	-10 to +50 °C
Max humidity	95%, non-condensing
Application altitude	up to 4000 m above sea level
Chemically active substances	3C2, according IEC 721-3-3

10 Environmental Protection Requirements

The supplier shall ensure the fulfillment of the following ecological requirements.

Prohibited Substances:

The product shall not contain any hazardous substances restricted by REACH Regulation 1907/2006/EC and RoHS Directive 2011/65/EC.

Substances to be avoided:

The use of hazardous substances as listed below shall be avoided.

- Substances listed on the ECHA candidate list of Substances of Very High Concern (SVHC) above 0.1% w/w
- Chromium VI for metallic surface coatings, zinc layers and pigmented plastics

Declaration

A supplier declaration of hazardous substances shall be provided declaring any substance still existing in the product and confirming legal compliance.

11 Supplier / Manufacturer obligations

The iSPECI BLE adapter shall be provided with manufacturer part number and Schindler logo, engraved or with a label (for part number please refer to the doc E 50000606).

The supplier / manufacturer shall assure the traceability of every supplied material, at the level required by ISO 9000 family standard. In case of claim / failure the supplier shall be able to trace all the units supplied with the same order lot of the failed unit.

The battery FT702025P from Manufacturer Helix Co Ltd (for Ver 1) and PL702530-500mAh from General Electronics Battery Co., Ltd. (for Ver 2) has to be used because this battery was tested according to the following standards and passed the tests.

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Requested by the CE:

- IEC62133 Secondary cell and battery containing alkaline or other non-acid electrolytes: safety requirements for portable sealed secondary Lithium cells.
- IEC 62368-1 Audio/video, information and communication technology equipment - Part 1: Safety requirements

Requested for global shipping:

- IEC62281 Safety of primary and secondary lithium cells and battery during transport: Drop Test
- UN38.3 Test Summary and Supplier Inquiry Form Lithium Battery Service in English for batteries
- UN38.3 Test Summary and Supplier Inquiry Form Lithium Battery Service in English for cells
- United Nations "Recommendation on the TRANSPORT OF DANGEROUS GOODS" Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7 Section 38.3) for cell
- United Nations "Recommendation on the TRANSPORT OF DANGEROUS GOODS" Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7 Section 38.3) for pack

No other battery can be used.

A label, with following information's, must be put directly on the battery:

- Type of battery
- Manufacturer and part number
- Rated capacity
- Nominal voltage
- Certifications
- Polarity (+ and -)
- Date of manufacture

Polymer Li-ion Rechargeable Battery

Model : FT702025P

- Voltage : 3.7VDC
- Capacity : 300mAh_1.11Wh
- IEC 62133, UN38.3 Certified
- Caution : 1ICP8/21/27
- + Do not incinerate, disassemble, or used in high temp.
- + Do not charge except on the specified charging condition.
- + Do not crash or modify.
- + Date Code : 20A15
- + Manufactured by HELIX CO.,LTD.

Example of the label:

Remarks: Data Code: 20A15 means:

20 is the year

A is the month

15 is the day

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Considering that the Polymer Li-on rechargeable battery pack (Polymer Li Cells) belongs to the dangerous goods, it is important that a label is placed outside the packaging indicating that contains dangerous goods.

11.1 Compliances

This iSPECI BLE adapter has been designed to be compliant to the following directives:

- For Europe: RED (2014/53/EU) and Electromagnetic Compatibility Directive (2014/30/EU)
- For America: [FCC Part 2 Section 2, see also paragraph 11.2](#)
- No SRRC certification required because this device is NOT sold to the Chinese open market.
- RoHS : 2011/65/EU and 2015/863/EU

The iSPECI BLE Adapter shall report CE marking and all required indications.

Note: The manufacturer shall ensure the compliance with the Bluetooth 5.2 specification released by the Bluetooth SIG.

In particular, it shall be ensured that each device has a unique BD-Address as described in the specifications.

11.2 Federal Communications Commission Interference Statement

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.
- 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."
- Increase the separation between the equipment and receiver.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter

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INVENTIO AG, CH-6052 Hergiswil iSPECI BLE Adapter Technical Information	KA No. 120449	KA Date 2021-09-25	Ae 2	Q 50000606	Page 13	Format A4	Lang. EN
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11.3 Testing and Final Setup

The adapter has to be tested before being shipped to Schindler, following functions have to be tested:

- Bluetooth interface
- RS232 interface
- RS422 interface
- Connection / Disconnection
- Data transfer
- FW version
- Battery charge

The FW version has to be the 2.1.9

Before shipping the adapter, the battery charge has to be between 20% and 30%, the charge can NOT be more than 30% before shipping.

Unique BD-Address in HEX format XX-XX-XX-XX-XX-XX has to be stored into the
UUID 2A25

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