BCS3678^{ex}-NI Bluetooth – connection options

Picture



Option

Option 1

Connection via Universal Supply Module to a PC/Host* in safe area.

Option 2

Connection via Base station to a PC/Host* in safe area.

Option 3

Connection via Universal Supply Module to a HMI certified for use in Zone 2/22 or Division 2

Option 4

Connection via Smart USB Device Bluetooth to a HMI certified for use in Zone 2/22

Option 5

Connection via Bluetooth to another Bluetooth device in safe area or hazardous location in Zone 2/22 or Division 2

About PC/Host*:

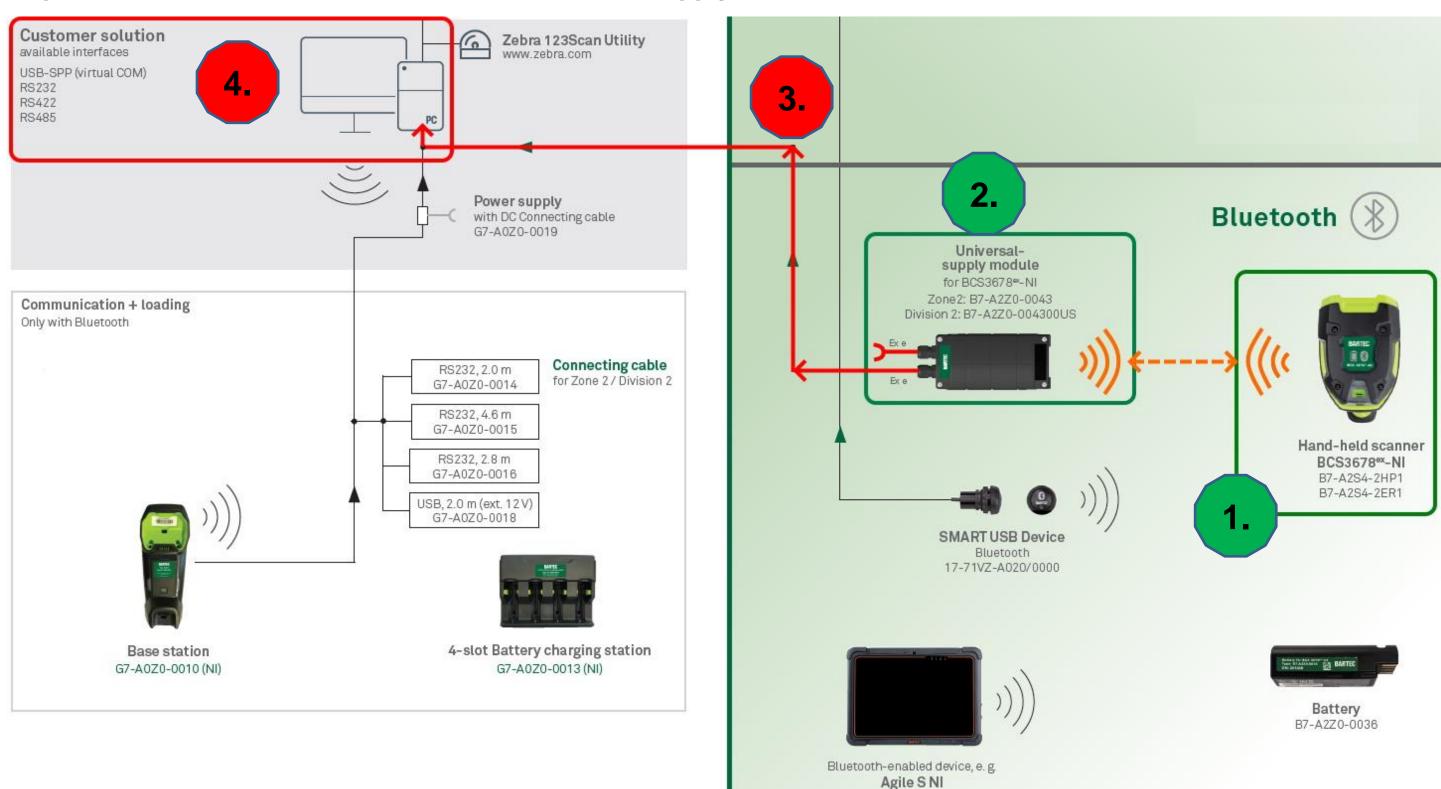
The designation PC/Host covers a wide range of possible devices to which the BCS3678^{ex}-NI can be connected.

- PC with operating system e.g. Windows
- remote station
- PLC
- Scale system
- Any other system with a compatible interface and the ability to process serial data.

Important is that the system need to have a compatible interface that scanner can be connected.



Option 1: BCS3678^{ex}-NI connection via Universal Supply Module to a PC/Host* in safe area.





Green = Components from BARTEC for use in hazardous location Zone 2/22 or Division 2 Red = Customer-specific components (not supplied by BARTEC)





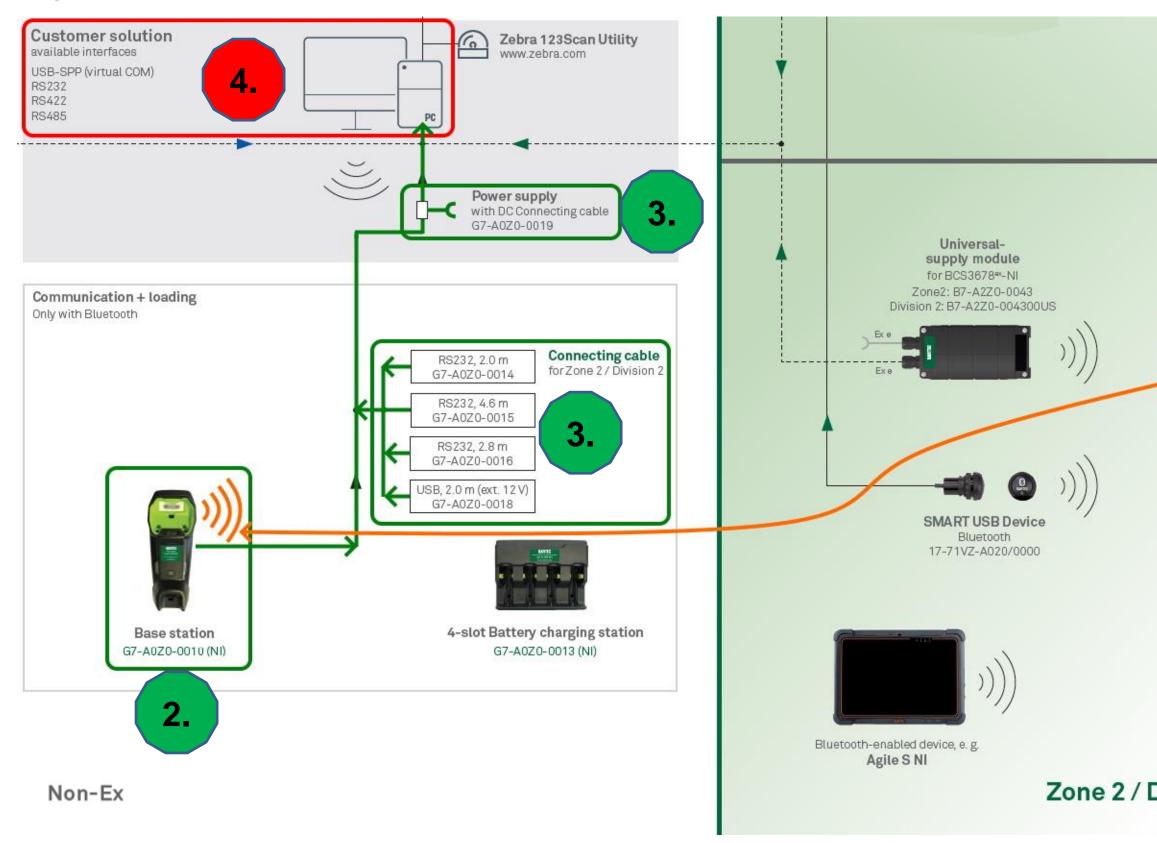


No.	Picture	Part	Interfaces and their Ex-protection type
1.	x3	BCS3678 ^{ex} -NI Bluetooth • ATEX/IECEx Zone 2/22 • NEC/ETL Division 2 P/N: B7-A2S4-2xxx	Bluetooth interface for: • Class 1, Version 4.0 (LE)
2.	BATE	Universal supply module Bluetooth • ATEX/IECEx Zone 2/22 P/N: B7-A2Z0-0043	 Power supply: (Ex e) AC 100 V - 240 V ± 10% / 50-60 Hz DC 24 V ± 10% / 0.4 A Data line: (Ex e to PC/Host) RS232 (TxD from Scanner/USM to PC/host only) RS422 RS485 USB-SPP (Serial Port Profile)
		 Universal supply module Bluetooth ATEX/IECEx Zone 2/22 NEC/ETL Division 2 P/N: B7-A2Z0-004300US 	 Only difference is power supply supports only: DC 24 V ± 10% / 0.4 A
3.	kample picture)	Connection cable Customer specific and not supplied by BARTEC. We recommend shielded cables e.g. CAT5 or higher.	 Data line: (Ex e to PC/Host) RS232 (TxD from Scanner/USM to PC/host only) RS422 RS485 USB-SPP (Serial Port Profile) Cable laying is carried out by the customer in accordance with the Ex-particular secondance with the Ex-part
		Power Cable Customer specific and not supplied by BARTEC.	 Power supply: (Ex e) AC 100 V - 240 V ± 10% / 50-60 Hz DC 24 V ± 10% / 0.4 A
4.		PC/Host Customer specific PC/Host with interface for connection to Universal Supply Module (USM).	PC/Host Customer specific and installed in safe area.



vith the Ex-protection requirements of Ex e.		

Option 2: BCS3678^{ex}-NI connection via Base station to a PC/Host* in safe area.



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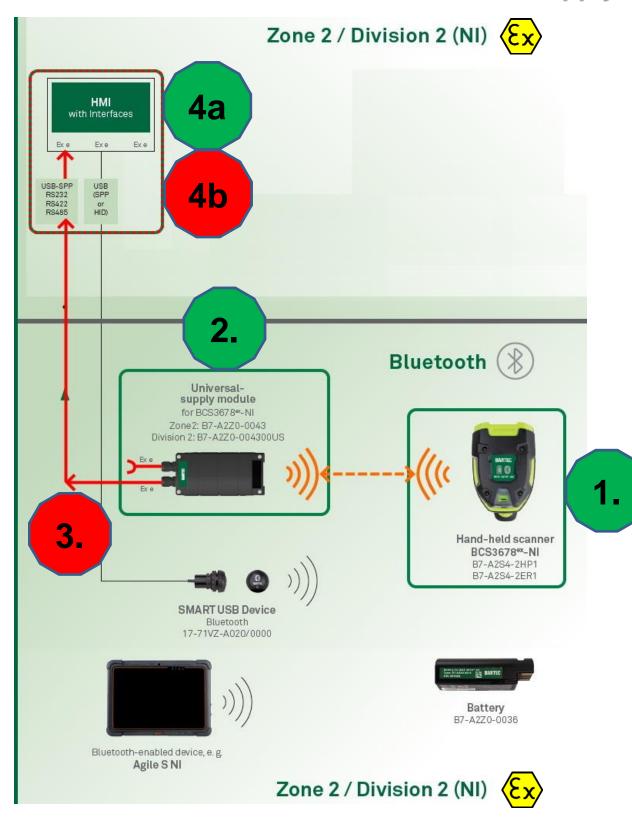
No.	Picture	Part	Interfaces and their Ex-protection type
1.	EX	BCS3678 ^{ex} -NI Bluetooth • ATEX/IECEx Zone 2/22 • NEC/ETL Division 2 P/N: B7-A2S4-2xxx	Bluetooth interface for: • Class 1, Version 4.0 (LE)
2.	Contraction of the second seco	Base station • Only for use in safe area P/N: G7-A0Z0-0010	 Power supply: Input: AC 100 V - 240 V ± 10% / 50-60 Hz Output: DC 12 V / 4.6 A / 50 W Data line: (to PC/Host) RS232 USB-HID (Human Interface Device) USB-SPP (Serial Port Profile)
3.	Sample picture for RS232 cable with power supply	Connection cable between base station and PC • Only for use in safe area <u>Part numbers:</u> RS232; 2 m; plain => G7-A0Z0-0014 RS232; 4.6 m; plain => G7-A0Z0-0015 RS232; 2.8 m; spiral => G7-A0Z0-0016 USB; 2 m; plain => G7-A0Z0-0018	Data line: • RS232 • USB (supports –HID or –SPP mode)
	Sample picture for USB cable with power supply	Power Supply with DC connection cable between connection cable and power outlet • Only for use in safe area P/N: G7-A0Z0-0019	Power supply: • AC 100 V - 240 V ± 10% / 50-60 Hz • DC 24 V ± 10% / 0.4 A
4.		PC/Host Customer specific PC/Host with interface for connection to Universal Supply Module (USM).	PC/Host Customer specific and installed in safe area.





Option 3:

BCS3678^{ex}-NI connection via Universal Supply Module to a HMI certified for use in Zone 2/22 or Division 2



Green = Components from BARTEC for use in hazardous location Zone 2/22 or Division 2 Red = Customer-specific components (not supplied by BARTEC)



	Picture	Part	Interfaces and their Ex-protection type
1.	Ex Ex	BCS3678 ^{ex} -NI Bluetooth • ATEX/IECEx Zone 2/22 • NEC/ETL Division 2 P/N: B7-A2S4-2xxx	Bluetooth interface for: • Class 1, Version 4.0 (LE)
2.	BARTEG	 Universal supply module Bluetooth ATEX/IECEx Zone 2/22 P/N: B7-A2Z0-0043 	 Power supply: (Ex e) AC 100 V - 240 V ± 10% / 50-60 Hz DC 24 V ± 10% / 0.4 A Data line: (Ex e to PC/Host) RS232 (TxD from Scanner/USM to PC/host only) RS422 RS485 USB-SPP (Serial Port Profile)
		 Universal supply module Bluetooth ATEX/IECEx Zone 2/22 NEC/ETL Division 2 P/N: B7-A2Z0-004300US 	 Only difference is power supply supports only: DC 24 V ± 10% / 0.4 A
3.	kample picture)	Connection cable Customer specific and not supplied by BARTEC. We recommend shielded cables e.g. CAT5 or higher.	 Data line: (Ex e to PC/Host) RS232 (TxD from Scanner/USM to PC/host only) RS422 RS485 USB-SPP (Serial Port Profile) Cable laying is carried out by the customer in accordance with the
		Power Cable Customer specific and not supplied by BARTEC.	 Power supply: (Ex e) AC 100 V - 240 V ± 10% / 50-60 Hz DC 24 V ± 10% / 0.4 A



the Ex-protection requirements of Ex e.

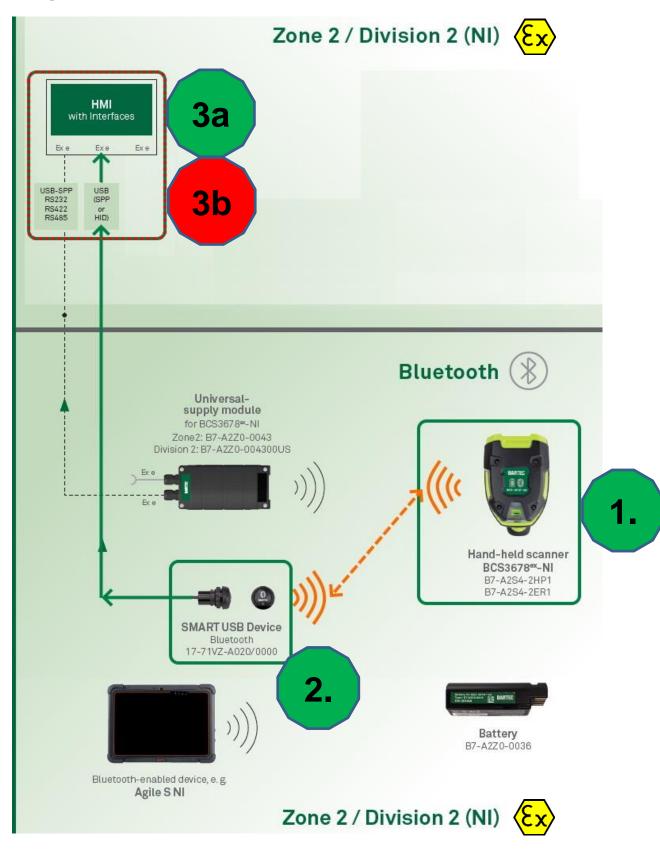
4 a	C	 HMI Polaris II Series ATEX Zone 2/22 P/N: on request by ESS-AUT business unit Compatible Polaris series: Polaris Professional with RS422 or USB Polaris II Professional RS422 or USB Polaris Remote Digital with USB Polaris Zero Client with RS 422 or USB 	Data line: (Ex e to HMI) It is important that on the Polaris device is a free interface in RS42 Then the "Universal Supply Module" interface can be connected to The "Universal Supply Module" powers the scanner.
4b	3rd party HMI	HMI – Ex version of 3 rd party manufacturer • ATEX Zone 2/22	It is possible but customer need to check that Ex-relevant val manufacturer. Data line: (Ex e to HMI) • RS232 (TxD from Scanner/USM to PC/host only) • RS422 • RS485 • USB-SPP (Serial Port Profile) Ex-relevant input parameter of BARTEC Universal Supply Module <u>Input Ex-Model</u> <u>Power supply Ex e</u> Data interface Ex e



422 or USB available. I to the Polaris device.

values are compatible with HMI

Option 4: BCS3678^{ex}-NI connection via Smart USB Device Bluetooth to a HMI certified for use in Zone 2/22



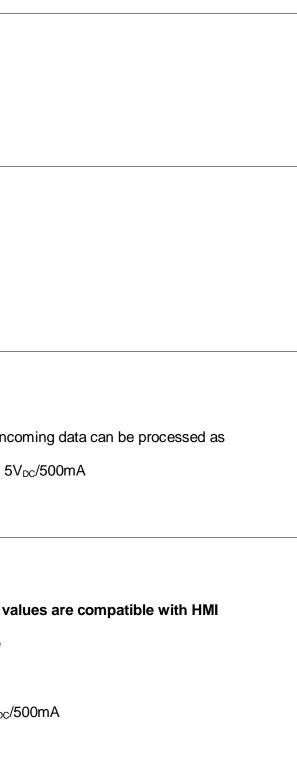
Green = Components from BARTEC for use in hazardous location Zone 2/22 or Division 2 Red = Customer-specific components (not supplied by BARTEC)



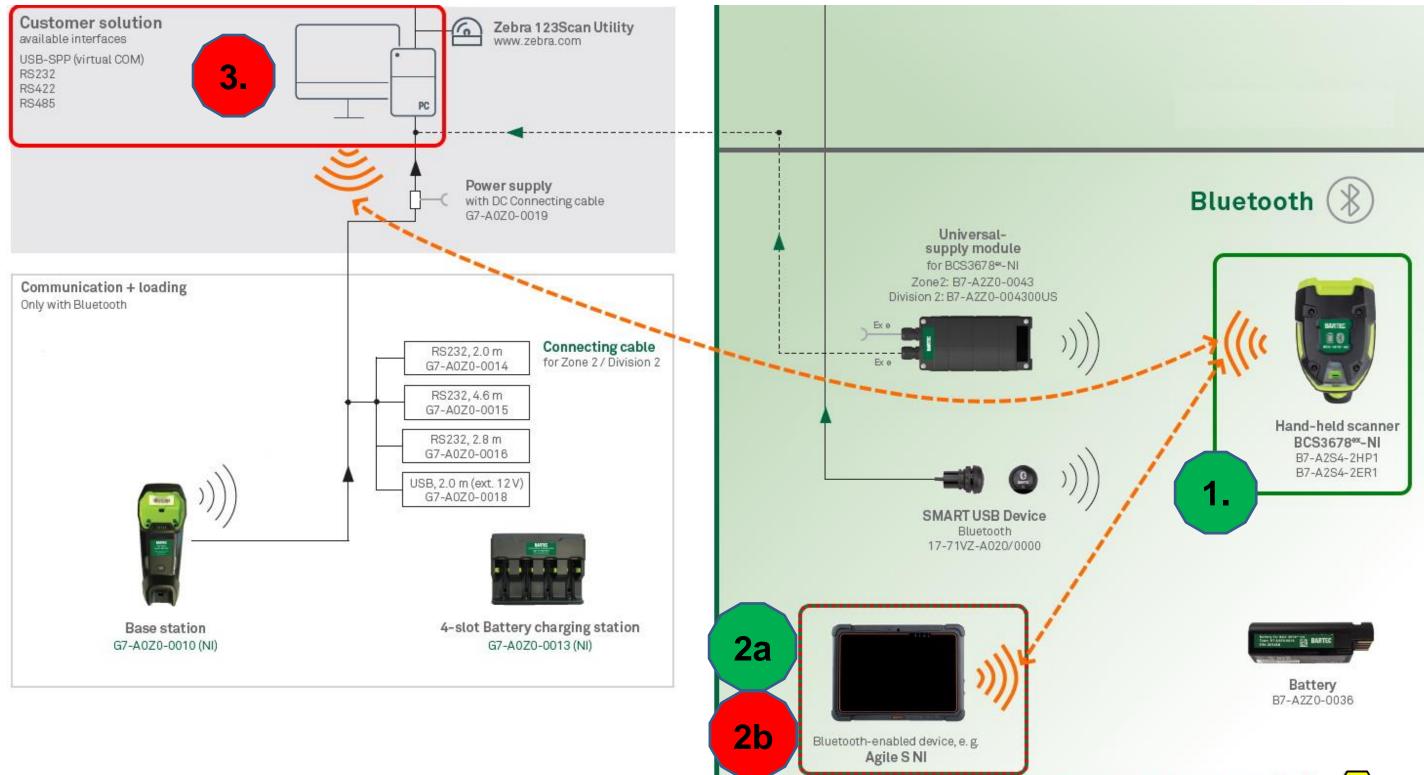
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No.	Picture	Part	Interfaces and their Ex-protection type
1.	Ex Contraction of the second s	BCS3678 ^{ex} -NI Bluetooth • ATEX/IECEx Zone 2/22 • NEC/ETL Division 2 P/N: B7-A2S4-2xxx	Bluetooth interface for: • Class 1, Version 4.0 (LE)
2.		SMART USB Device Bluetooth • ATEX/IECEx Zone 1/21 P/N: 17-71VZ-A020/0000	Data line: (Ex e to PC/Host) • USB-HID (Human Interface Device)
3a	Kex	 HMI Polaris II Series ATEX Zone 2/22 P/N: on request by ESS-AUT business unit Compatible Polaris series: Polaris Professional with USB Polaris II Professional with USB Polaris Zero Client WIN10 with USB 	 Data line: (Ex e to HMI) USB-HID (Human Interface Device mode is supported – Ince keyboard entry) USB interface provides the functional necessary values of 5
3b	3rd party HMI	HMI – Ex version of 3 rd party manufacturer • ATEX Zone 2/22	It is possible but customer need to check that Ex-relevant va manufacturer. A compatible interface in "Ex e" version must be available Data line: (Ex e to HMI) • USB-HID USB interface provides the functional necessary values of 5V _{DC} /5





Option 5: BCS3678ex-NI connection via Bluetooth to another Bluetooth device in safe area or hazardous location in Zone 2/22 or Division 2



Green = Components from BARTEC for use in hazardous location Zone 2/22 or Division 2 Red = Customer-specific components (not supplied by BARTEC)





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-	Picture	Part	Interfaces and their Ex-protection type
1.	Ex	BCS3678 ^{ex} -NI Bluetooth • ATEX/IECEx Zone 2/22 • NEC/ETL Division 2 P/N: B7-A2S4-2xxx	Bluetooth interface for: • Class 1, Version 4.0 (LE)
2a	Sample picture Agile S	BARTEC device with Bluetooth capability • ATEX/IECEx Zone 2/22 or 1/21 • Division 2 or 1 Devices as example: • Tablet PC Agile X IS • Tablet PC Agile S • Mobile Computer MC93 ^{ex} -NI • Mobile Computer MC27 ^{ex} -NI • Touch Computer TC77 ^{ex} -NI • Touch Computer TC26 ^{ex} -NI • Pixavi Phone • Smart USB Device Bluetooth•	Bluetooth interface for: Class 1 or 2 Bluetooth Class and version is depending of the Mobile device. Bluetooth connection can be established with any kind of device in
2b		Ex-certified 3 rd Party PC/Host with Bluetooth capability Customer specific PC/Host with Bluetooth interface. • Device must be certified for use in hazardous area.	Bluetooth interface for: Class 1 or 2 Bluetooth Class and version is depending of the Mobile device. Bluetooth connection can be established with any kind of device in
3		3rd Party PC/Host with Bluetooth capability Customer specific PC/Host with Bluetooth interface. Device can be certified for use in hazardous area or in safe area.	Bluetooth interface for: Class 1 or 2 Bluetooth Class and version is depending of the PC/Host device. Bluetooth connection can be established with any kind of device in



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