## **MultiPEN** RFID Reader ATEX Zone 2 PEN

# PART ID: **4603**

The MultiPEN is an innovative RFID/NFC handheld reader that enables UIDs of passive RFID TAGs to be read with different frequency range combinations. The MultiPEN makes it possible to transfer read UIDs via Bluetooth to a host computer (tablet, laptop or smartphone). The read UIDs can also be transferred / read into the database of the device memory and transferred to the host computer later via Bluetooth or USB connection. Since a real-time clock is integrated, date and time can be automatically assigned to the read UID. The MultiPEN makes it easier for users to work and makes RFID/NFC applications in maintenance, inventory, guard control systems and logistics processes efficient due to its simple handling. RFID/NFC TAGs that are mounted close to each other or in places that are difficult to access can be easily identified due to the small size of the MultiPEN's reading tip



### **Main Specifications**

LF HF UHF
Polyamid
-20°C to 60°C
IP54
RoHs & Reach, CE
HID/SPP BT Interface, Real- Time Clock, OLED Display, Vibration Feedback, Dual Frequency

# **Full Specifications**

Product ID	4603
Name	MultiPEN
Atex	yes
Material	Polyamid
Shape	Short Range
Long Description	The MultiPEN is an innovative RFID/NFC handheld reader that enables UIDs of passive RFID TAGs to be read with different frequency range combinations. The MultiPEN makes it possible to transfer read UIDs via Bluetooth to a host computer (tablet, laptop or smartphone). The read UIDs can also be transferred / read into the database of the device memory and transferred to the host computer later via Bluetooth or USB connection. Since a real-time clock is

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Feedback, Dual Frequency         Feedback           Comments         Including Case And Accessories           Article Type         PEN           Color         Black, Yellow           Length [rm]         190           Width [rm]         30           Thickness [rm]         35           Weight [g]         125           Anticollision         yes           IP Class         IP54           PCB Material         FR4           Chemical Resistance         Not Specified           Compliance         Rots Specified           Compliance         Rots Specified           Compliance         Rots Specified           Compliance         Rots & Reach, CE           Read / Read Write         ReadWrite           Typical Reading Range         13           Storage Temp °C (max)         60           Operating Temp °C (max)         60           Storage Temp °C (max)         60           Operating Terequency         Li-Ion           Battery Capacity         2000 mAh           Operating Terequency         Li-YUHF           Frequency Range         125.135kHz, 860-920MHz           Power over Ethermet [PoE]         No <t< th=""><th></th><th>integrated, date and time can be automatically assigned to the read UID. The MultiPEN makes it easier for users to work and makes RFID/NFC applications in maintenance, inventory, guard control systems and logistics processes efficient due to its simple handling. RFID/NFC TAGs that are mounted close to each other or in places that are difficult to access can be easily identified due to the small size of the MultiPEN's reading tip</th></t<>		integrated, date and time can be automatically assigned to the read UID. The MultiPEN makes it easier for users to work and makes RFID/NFC applications in maintenance, inventory, guard control systems and logistics processes efficient due to its simple handling. RFID/NFC TAGs that are mounted close to each other or in places that are difficult to access can be easily identified due to the small size of the MultiPEN's reading tip
Article TypePENColorBlack, YellowLength [mm]190Width [mm]30Thickness [mm]35Weight [g]125AnticollisionyesIP ClassIP54PCB MaterialFR4Chemical ResistanceNot SpecifiedFlame ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead/WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Type2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]600Display Size4 RowMemory Capacity1000 UIDDisplay Size4 Row	Key Features	
Color         Black, Yellow           Length [mm]         190           Width [mm]         30           Thickness [mm]         35           Weight [g]         125           Anticollision         yes           IP Class         IP54           PCB Material         FR4           Chemical Resistance         Not Specified           Flame Resistance         Not Specified           Compliance         RoHs & Reach, CE           Read / Read Write         Read&Write           Typical Reading Range         13           Supported Standards / Tags         all           Operating Temp °C (max)         60           Storage Temp °C (max)         60           Power Supply         USB           Battery Type         Li-Ion           Battery Capacity         2000 mAh           Operating Frequency         LF+UHF           Frequency Range         125-135kHz, 860-920MHz           Power over Ethernet [PoE]         No           Interfaces Physical         USB/Bluetooth           Interfaces Physical         USB/Bluetooth           Interfaces Physical         USB/Bluetooth           Interfaces Physical         SOO	Comments	Including Case And Accessories
Length [mm]         190           Width [mm]         30           Thickness [mm]         35           Weight [g]         125           Anticollision         yes           IP Class         IP54           PCB Material         FR4           Chemical Resistance         Not Specified           Flame Resistance         Not Specified           Mechanical Resistance         Not Specified           Compliance         RoHs & Reach, CE           Read / Read Write         Read&Write           Typical Reading Range         13           Supported Standards / Tags         all           Operating Temp °C (max)         60           Power Supply         USB           Battery Type         Li-Ion           Battery Capacity         2000 mAh           Operating Frequency         LF+UHF           Frequency Range         125-135kHz, 860-920MHz           Power over Ethernet [PoE]         No           Interfaces Physical         USB/Bluetooth           Interfaces Physical         USB/Bluetooth           Interfaces Protocol         ASCII           Transfer rate [Baud]         9600           Display Size         4 Row	Article Type	PEN
Width [mm]30Thickness [mm]35Weight [g]125AnticollisionyesIP ClassIP54PCB MaterialFR4Chemical ResistanceNot SpecifiedMechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead // Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range15Interfaces PhysicalUSB/BluetoothInterfaces PhysicalSUS/BluetoothInterfaces Physical9600Display Size4 RowMemory Capacity000 UIDDisplay000 UID <tr< td=""><td>Color</td><td>Black, Yellow</td></tr<>	Color	Black, Yellow
Thickness [nm]35Weight [g]125AnticollisionyesIP ClassIP54PCB MaterialFR4Chemical ResistanceNot SpecifiedMechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-lonBattery Capacity200 mAhOperating FrequencyLF+UHFFrequency Range1.S15MHz, 860-920MHzPower over Ethermet [PoE]NoInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Length [mm]	190
Weight [g]125AnticollisionyesIP ClassIP54PCB MaterialFR4Chemical ResistanceNot SpecifiedFlame ResistanceNot SpecifiedMechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135KHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces Physical9600Display Size4 RowMemory Capacity0LEDDisplay0LEDDisplay0LEDDever ToolsSDK	Width [mm]	30
AnticollisionyesIP ClassIP54PCB MaterialFR4Chemical ResistanceNot SpecifiedFlame ResistanceNot SpecifiedMechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135KHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces Physical9600Display Size4 RowMemory Capacity0LEDDisplay0LEDDisplay0LEDDevernet ToolsSDK	Thickness [mm]	35
IP ClassIP54PCB MaterialFR4Chemical ResistanceNot SpecifiedFlame ResistanceNot SpecifiedMechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Weight [g]	125
PCB MaterialFR4Chemical ResistanceNot SpecifiedFlame ResistanceNot SpecifiedMechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDisplay0LEDDevelopment ToolsSDK	Anticollision	yes
Chemical ResistanceNot SpecifiedFlame ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDisplay0LEDDevelopment ToolsSDK	IP Class	IP54
Flame ResistanceNot SpecifiedMechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	PCB Material	FR4
Mechanical ResistanceNot SpecifiedComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Chemical Resistance	Not Specified
ComplianceRoHs & Reach, CERead / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Flame Resistance	Not Specified
Read / Read WriteRead&WriteTypical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Mechanical Resistance	Not Specified
Typical Reading Range13Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Compliance	RoHs & Reach, CE
Supported Standards / TagsallOperating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Read / Read Write	Read&Write
Operating Temp °C (min)-20Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDisplaySDK	Typical Reading Range	13
Operating Temp °C (max)60Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Supported Standards / Tags	all
Storage Temp °C (max)60Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDevelopment ToolsSDK	Operating Temp °C (min)	-20
Power SupplyUSBBattery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory CapacityOLEDDevelopment ToolsSDK	Operating Temp °C (max)	60
Battery TypeLi-IonBattery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity0LEDDisplaySDK	Storage Temp °C (max)	60
Battery Capacity2000 mAhOperating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity1000 UIDDisplayOLEDDevelopment ToolsSDK	Power Supply	USB
Operating FrequencyLF+UHFFrequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity1000 UIDDisplayOLEDDevelopment ToolsSDK	Battery Type	Li-Ion
Frequency Range125-135kHz, 860-920MHzPower over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity1000 UIDDisplayOLEDDevelopment ToolsSDK	Battery Capacity	2000 mAh
Power over Ethernet [PoE]NoInterfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity1000 UIDDisplayOLEDDevelopment ToolsSDK	Operating Frequency	LF+UHF
Interfaces PhysicalUSB/BluetoothInterfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity1000 UIDDisplayOLEDDevelopment ToolsSDK	Frequency Range	125-135kHz, 860-920MHz
Interfaces ProtocolASCIITransfer rate [Baud]9600Display Size4 RowMemory Capacity1000 UIDDisplayOLEDDevelopment ToolsSDK	Power over Ethernet [PoE]	No
Transfer rate [Baud]9600Display Size4 RowMemory Capacity1000 UIDDisplayOLEDDevelopment ToolsSDK	Interfaces Physical	USB/Bluetooth
Display Size     4 Row       Memory Capacity     1000 UID       Display     OLED       Development Tools     SDK	Interfaces Protocol	ASCII
Memory Capacity     1000 UID       Display     OLED       Development Tools     SDK	Transfer rate [Baud]	9600
Display OLED Development Tools SDK	Display Size	4 Row
Development Tools SDK	Memory Capacity	1000 UID
Development Tools SDK	Display	OLED
	Development Tools	SDK
		yes

## VARIANTS

ID

Variant

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#### **TECTUS Datasheet**

ID

4603-01-000-01

Variant LF/UHF Read/Write

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