MOBI-CMPLT
mobiLink Modem for FF, Profibus PA, and HART

Description:

Perform Foundation Fieldbus (FF), Profibus PA, and HART communications in hazardous areas using Bluetooth interface. USB interface for communications in non-hazardous areas.

Features:

- Compliant FF Host
- Compliant Profibus PA Host
- Compliant HART Master
- Suitable for Hazardous areas, Zone 1
- Rugged IP54 enclosure
- USB interface (safe area only)
- Bluetooth and Bluetooth LE interface (Hazardous areas)
- Battery powered, over 45 hours of continuous operation
- FF DTM included (for FDT systems)
- Profibus DTM included (for FDT systems)
- HART DTM included (for FDT systems)
- Works with DevCom2000, DevComDroid and DevCom.iOS (for HART)
- Works with DevComFF.Win and DevComFF.Droid (for FF)

Specifications:

Enclosure
Dimensions   6.9" x 2.9" x 1.3" (175 mm x 74 mm x 32 mm)
Total Unit Weight   11.6 oz (330 g) including Batteries
Protection Class   IP 54

Safety
Intrinsic safety   EX ia IIB, Ui = 30 V or FISCO field device
IECEx   Ex ib [ia Da] IIIC T100°C Db
ATEX   II 2D Ex ib [ia Da] IIIC T100°C Db
Isolation   1500 VDC between USB and field device connections

FF and Profibus PA
Standard   IEC 61158-2, Type 1: 31.25 Kbit/s, voltage mode
Input Current   10 mA in Bluetooth and regular USB mode
                               18 mA (with fieldbus voltage > 9.5V)
Fieldbus Terminator   None

HART
Connections   Across loop resistor or HART field device
Specifications   HART 4, HART 5, HART 6, HART 7,
                               HART Physical Layer Spec HCF_SPEC-54

DTM
Operating System   Windows 7 Professional to latest
                               DTM not needed for DevCom or DevComFF Apps or software

USB
Specifications   USB 2.0
Power   3x AA Batteries, USB port provides power to unit (in safe area only)
Current Draw   100mA, note that batteries are still required for operation

Bluetooth
Type   Dual Mode (BT Classic and BLE)
Frequency   2.4 GHz
Range   46' (14m)

Connections
Profibus PA   4mm banana jacks
FF   4mm banana jacks
HART   4mm banana jacks
USB Connector   USB Type C

Environmental
Operating Temperature   -20 degC to 50 degC (-4 degF to 122 degF)
Storage Temperature   -40 degC to 85 degC (-40 degF to 185 degF)
Humidity   0% to 95% (non-condensing)

Compliances
Certifications   EMC, ATEX, IECEx, RED, RoHS, WEEE
                               See user manual for details

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