

MultiTech Conduit[®]AP

Access Point for LoRa[®] Technology US915 for North America

LoRa Alliance

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MultiTech Conduit^{*} **AP** harnesses the power of the LoRaWAN^{*} protocol to provide in-building penetration and connectivity to thousands of IoT assets. Easy to deploy, the Conduit AP it extends LoRa^{*} connectivity in commercial buildings like hotels, convention centers, offices and retail facilities providing coverage in difficult to reach areas cell tower or rooftop deployments may not penetrate.

MULTITECHO

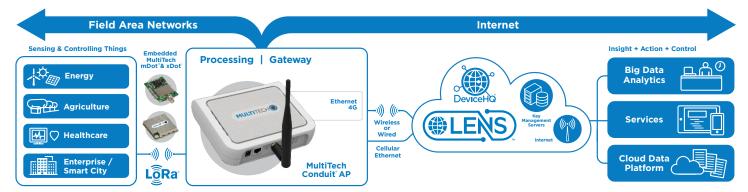
The Conduit AP offers a development environment for developers and IT professionals alike. mPower[™] Edge Intelligence features an easy-to-use graphical interface set-up and includes a built-in LoRa Network Server and Packet Forwarder to connect locally clustered assets on a private LoRaWAN network directly to your choice of IoT data platforms. The mPower extends complex processing to the edge to reduce upstream communication and operational costs. The Conduit AP provides Ethernet or optional 4G-LTE IP backhaul.

BENEFITS

- Provide improved service level agreements for LoRa
- Affordable LoRa connectivity in or around commercial buildings
- Ethernet and 4G-LTE interfaces for primary or secondary WAN
- Quick & easy to deploy
- Carrier approved

FEATURES

- Ethernet RJ-45 10/100 BaseT for IP backhaul
- Optional 4G-LTE IP backhaul
- Models available with external LoRa antenna for improved performance
- Built-in LoRa Network Server and Packet Forwarder



www.multitech.com/conduitap

EDGE INTELLIGENCE

Programmable embedded software provides enhanced security and enables task execution at the edge for reduced latency and cost optimization.

mPower[™] Edge Intelligence is a new embedded software offering, building on its popular application enablement platform, to deliver programmability, network flexibility, enhanced security and manageability for scalable Industrial Internet of Things (IIoT) solutions.

mPower is the unification and evolution of well-established MultiTech smart router and gateway firmware platforms. In addition to ongoing support of the current feature-sets, gateway customers can enjoy the additional security features currently available on the MultiConnect^{*} rCell 100 Series.

mPower simplifies integration with a variety of popular upstream IoT platforms to streamline edge-to-cloud data management and analytics, while also providing the programmability and processing capability to execute critical tasks at the edge of the network to reduce latency; control network and cloud services costs, and ensure core functionality – even in instances when network connectivity may not be available.

In response to evolving customer security requirements, mPower incorporates a host of new security features including signed firmware validation, enhanced firewall and VPN settings, secure authentication and more.

mPower software specifications can be found here.

Easily Deploy and Manage Assets Via DeviceHQ*

MultiTech DeviceHQ is the M2M industry's first IoT online application store to enable customers

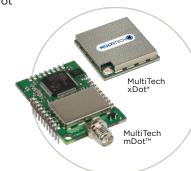


to easily deploy and scale applications to their connected devices. Drag-and-drop tools easily allow customers to create and manage applications for in-field assets. The DeviceHQ application store gives your business the power to innovate operations management and create value-added services.

CONNECTING THE "THINGS"

MultiTech mDot[™] & xDot[∗]

MultiTech mDot and xDot are secure, regulatorycertified, Arm®Mbed™ programmable, Iowpower RF modules, providing long-range, low bit rate IoT data connectivity to sensors and actuators.



The mDot and xDot are LoRaWAN compliant,

providing bi-directional data communication up to 10 miles line-of-sight and 2-3 miles in buildings, using the global sub-GHz ISM radio bands in North America, Europe, and the APAC regions.

The mDot was the first Arm Mbed platform listed on mbed.org that was deployment ready. The mDot supports applications written and compiled in the mbed online environment using developer friendly libraries. Decision making and control can be done at the edge, reducing the need to optimize RF performance and implement complex IoT middleware.

mDots and xDots bring intelligence, reduced complexity and a lower overall bill of material to the edge of the network while supporting a variety of interfaces to connect just about any battery-powered "thing".



Benefits

- "Low Touch" asset deployment reduces costs, complexity and time
- Easily scales to your network needs
- Browse and download a wide variety of custom applications tailored to your business needs
- Reduce truck-rolls using remote performance management and asset updates

HARDWARE SPECIFICATIONS

| Operator Other Other Other Other Other Performance 4G-LTE Category 1 No Fallback No Fallback Fallback Fallback fallback fallback fallback f | Models | MTCAP-LNA3-915 | MTCAP-LNA3-915 | MTCAP-LSP3-915 | MTCAP-915 |
|--|---|--|--|------------------------------|--------------|
| Fallback 3G + HSPA + No Fallback No Fallback No Fallback Frequency Band (MHz) 4G: B2(1900), B4(AWS1700), B5(250), B12/7100, B5(250), B12/7100, B5(250), B12/7100, B12/700 4G: B2(1900), B4(AWS1700, B12/700, B12 | | AT&T | Verizon | Sprint | Non-Cellular |
| Arc B2(1900) B5(780700) 3G: B2(1900), B5(8500) 3G: B2(1900), B5(8500) 3G: B2(1900), B5(8500) B12(700), B1(10,10,10,10,10,10,10,10,10,10,10,10,10,1 | Performance | 4G-LTE Category 1 | | | |
| Frequency Band (MHz) Bd(AWS1700), BS(B3C) Bd(AWS1700), Bd(B12700), BS(B2C) Bd(AWS1700), BS(B2C), B12(700), BS(B2C) MMC Packet Data (LTE FDD) Up to 10 Mbps downlink, Up to 5 Mbps uplink Input Voltage 5 VDC 2.5A input provided by 100-240 VAC 50/60 Hz 0.4A external adaptor Processor & Memory ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets • 400 MHz • 460 Data Cache • 256 MB Flash Memory LGRA Specifications - Cash Frequency Band - US315 - US315 LGRA Channel Plan - US315 - Cannel Capacity - Cannel Capacity - VEX LGRA Provenous - 2.5mm, 5 Volt power jack - VEX - VEX Ethernet R-400 ND2 - VEX - VEX Power 2.5mm, 5 Volt power jack N/A Ethernet RJ45 Ethernet jack (10/100 port) - VEX SIM - Callar reverse polarity female SMA Cellular: No antenna connection, internal to chassis N/A Antennas (-041A Models) - Callar reverse polarity female SMA Cellular: No antenna connection, internal only - VEX Physical Description - VEX-ABS (polycarbonate-ABS) - VEX - VEX Dimensions (LL w W H) - 1 | Fallback | 3G - HSPA+ | No Fallback | No Fallback | 1 |
| Input Voltage 5 VDC 2.5A input provided by 100-240 VAC 50/60 Hz 0.4A external adaptor Processor & Memory ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets - 16K Data Cache - 16K Data Cache - 16K Data Cache - 16K Instruction Cache - 256 MB Flash Memory - 256 MB Flash Memory LoRa Specifications USP15 - 256 MB Flash Memory - 256 MB Flash Memory LoRa Specifications USP15 | Frequency Band (MHz) | B4(AW\$1700), B5(850), B12/B13(700) | B4(AW\$1700), | B4(ÁWS1700), B5/B26(850), | N/A |
| ARM9 processor with 32-Bit ARM & 16-Bit Thumb instruction sets + 400 MHz + 400 MHz + 400 MHz + 400 MHz + 100 | Packet Data (LTE FDD) | Up to 10 N | 1bps downlink, Up to 5 Mbps | uplink | |
| Processor & Memory | Input Voltage | 5 VDC 2.5A input provided by 100-240 VAC 50/60 Hz 0.4A external adaptor | | | adaptor |
| LoRa Frequency Band915 MHzLoRa Channel PlanUS915Channel Capacity8-channels (half-duplex)LoRa Power Output24.6 dBm maximum output power before antennaConnectorsPower2.5mm, 5 Volt power jackEthernetSiMOwer2.5mm, 5 Volt power jackEthernet jack (10/100 port)SiMOwer colspan="2">SiMOwer colspan="2">ConnectorsPower2.5mm, 5 Volt power jackEthernet jack (10/100 port)SiMOwer colspan="2">ConnectorsConnectorsPowerConnectorsSiMConnectors <td cols<="" td=""><td>Processor & Memory</td><td colspan="3">• 400 MHz • 16K Data Cache • 256 MB Flash Memory</td></td> | <td>Processor & Memory</td> <td colspan="3">• 400 MHz • 16K Data Cache • 256 MB Flash Memory</td> | Processor & Memory | • 400 MHz • 16K Data Cache • 256 MB Flash Memory | | |
| LoRa Channel PlanUS915Channel Capacity8-channels (half-duplex)LoRa Power Output24.6 dBm maximum output power before antennaConnectorsPower2.5mm, 5 Volt power jackEthernetRJ45 Ethernet jack (10/100 port)SIM3FF Micro SIMAntennas (-001A Models)No antenna connections. All antennas are internal to chassisAntennas (-001A Models)LORa: reverse polarity female SMA Cellular: No antenna connection, internal onlyPhysical DescriptionLORa: reverse polarity female SMA (Cellular: No antenna connection, internal onlyPhysical Description14 (3) kg (lb)Chassis TypePC-ABS (polycame-ABS)Environmental0° to +70°COperating Temperature0° to +70°COperating Temperature0° to +70°CCertificationsUS: FCC Part 15 Class B. Canada: ICES-003 Class BEMC ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRel Mobility, TelusVerizon </td <td>LoRa Specifications</td> <td></td> <td></td> <td></td> <td></td> | LoRa Specifications | | | | |
| Channel Capacity8-channels (half-duplex)LoRa Power Output24.6 dBm maximum output power before antennaConnectors2.5mm, 5 Volt power jackPower2.5mm, 5 Volt power jack (10/100 port)SIM $2.5mm, 5 Volt power jack (10/100 port)$ SIM $3FF Micro SIM$ Antennas (-001A Models)No antenna connections. All antennas are internal to chassisAntennas (-041A Models) $Cellular: No antenna connection, internal onlyPhysical DescriptionLORa: reverse polarity female SMACellular: No antenna connection, internal onlyPhysical Description165 (6.5) \times 135 (5.3) \times 36 (1.4) mm (in)Weight14.4 (3) kg (lb)Chassis TypePC-ABS (polycarbonate-ABS)Environmental0^{\circ} to +70^{\circ}COperating Temperature0^{\circ} to +70^{\circ}COperating Temperature0^{\circ} to +70^{\circ}COr to +85^{\circ} CRelative Humidity200^{\circ} to 900, non-condensingCertificationsEMCEMC ComplianceUS: FCC Part 15 Class B. ICES-003 Class BRadio ComplianceUL_STPCRB, AT&TBell Mobility, TelusNetworkPending: T-Mobile, Rogers,Bell Mobility, TelusNetworkMIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop$ | LoRa Frequency Band | 915 MHz | | | |
| LoRa Power Output24.6 dBm maximum output power before antennaConnectorsPower2.5mm, 5 Volt power jackEthernet7.5mm, 5 Volt power jackEthernet8.75mm, 5 Volt power jackSIM3.75mm, 5 Volt power jackAntennas (-001A Models)Volt power jackAntennas (-01A Models)Volt power jackPhysical DescriptionVolt power polarity female SMA Cellular: No antenna connections, internal onlyPhysical DescriptionIDimensions (L x W x H)Weight1.65 (6.5) x 135 (5.3) x 36 (1.4) mm (in)Weight1.4 (3) kg (lb)Chassis TypePC-ABS (polycarbonate-ABS)EnvironmentalOperating TemperatureO° to +70°CO° to +65°CO° to +70°Corage TemperatureO° to +70°CO° to +65°CO° to +70°CCellular:Volt power jackEther temperatureVolt power jackCellular:Volt power jackCellular: <th colsp<="" td=""><td>LoRa Channel Plan</td><td colspan="3">US915</td></th> | <td>LoRa Channel Plan</td> <td colspan="3">US915</td> | LoRa Channel Plan | US915 | | |
| Connectors Power 2.5mm, 5 Volt power jack Ethernet RJ45 Ethernet jack (10/100 port) N/A SIM $3FF$ Micro SIM N/A Antennas (-001A Models) No antenna connections. All antennas are internal to chassis Antennas (-041A Models) Antennas (-041A Models) $LoRa: reverse polarity female SMA Cellular. No antenna connection, internal only Physical Description Physical Description LoRa: reverse polarity female SMA Cellular. No antenna connection, internal only Physical Description Dimensions (L x W x H) 165 (6.5) \times 135 (5.3) \times 36 (1.4) mm (in) Physical Description Physical Description 14.4 (3) kg (lb) Chassis Type 0^{\circ} to +70^{\circ}C Chassis Type PC-ABS (polycarbonate-ABS) 0^{\circ} to +70^{\circ}C 0^{\circ} to +65^{\circ}C Storage Temperature 0^{\circ} to +70^{\circ}C 0^{\circ} to +65^{\circ}C 0^{\circ} to +70^{\circ}C Certifications 20\% to 90\%, non-condensing Certifications Certifications = 20\% to 90\%, con-condensing EMC Compliance US: FCC Part 15 Class B. Canada: ICES-003 Class B Radio Compliance US: FCC Part 22,24,27 / Canada: ISED Safety UL/cUL 60950^{-1} 2nd Ed N/A$ | Channel Capacity | 8-channels (half-duplex) | | | |
| Power2.5mm, 5 Volt power jackEthernetRJ45 Ethernet jack (10/100 port)SIM \bigcirc 3FF Micro SIMN/AAntennas (-001A Models) \bigcirc antenna connections. All antennas are internal to chassisAntennas (-041A Models) \bigcirc Cellular: No antenna connection, internal onlyPhysical Description \bigcirc Cellular: No antenna connection, internal onlyDimensions (L x W x H) \bigcirc 165 (6.5) x 135 (5.3) x 36 (1.4) mm (in)Weight1.4 (3) kg (lb)Chassis Type \bigcirc PC-ABS (polycarborte-ABS)Environmental \bigcirc 0° to +70°COperating Temperature0° to +70°COperating Temperature0° to +70°CCertifications \bigcirc 20% to 90%, non-condensingCertifications \bigcirc Si FCC Part 15 Class B. Canada: ICES-003 Class BEnd Compliance \bigcup Si FCC Part 15 Class B. Canada: ICES-003 Class BRadio Compliance \bigcup Si FCC Part 22,24,27 / Canada: ISEDSafety \bigcup PTCRB, AT&TNetworkPPCRB, AT&TMIL-STD-8HOG: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop | LoRa Power Output | 24.6 dBm maximum output power before antenna | | | |
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| Antennas (-001A Models)No antenna connections. All antennas are internal to chassisAntennas (-041A Models) $\Box Ra: reverse polarity female SMA Cellular: No antenna connection, internal onlyPhysical DescriptionDimensions (L x W x H)165 (6.5) \times 135 (5.3) \times 36 (1.4) mm (in)Weight1.4 (3) kg (lb)Chassis TypePC-ABS (polycarbonate-ABS)Environmental0^{\circ} to +70^{\circ}C0^{\circ} to +65^{\circ}COperating Temperature0^{\circ} to +70^{\circ}C0^{\circ} to +85^{\circ} CRelative Humidity20\% to 90\%, non-condensingCertificationsUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUS: FCC Part 15 Class B. Canada: ISEDSafetyUL/cUL 6095-12nd Ed.NetworkPTCRB, AT&T Pending: T-Mobile, Rogers, BHI Mobility, TellusMIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop$ | Ethernet | RJ45 Ethernet jack (10/100 port) | | | |
| Antennas (-041A Models)LoRa: reverse polarity female SMA Cellular: No antenna connection, internal onlyPhysical DescriptionImage: Cellular: No antenna connection, internal onlyDimensions (L x W x H)165 (6.5) x 135 (5.3) x 36 (1.4) mm (in)Weight1.4 (3) kg (lb)Chassis TypePC-ABS (polycarbonate-ABS)EnvironmentalO° to +70°C0° to +65°C0° to +70°COperating TemperatureO° to +70°C0° to +65°C0° to +70°CCertificationsEMC ComplianceEMC ComplianceUS: FCC Part 15 Class B. Canada: ICES-003 Class BRadio ComplianceUL/cUL 60950-1 2nd Ed.SafetyUL/cUL 60950-1 2nd Ed.NetworkPTCRB, AT&T Bell Mobility. Tellus Bell Mobility. Tellus Bell Mobility. TellusSprintN/A | SIM | 3FF Micro SIM N/A | | | N/A |
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| Certifications EMC Compliance EMC Compliance Radio Compliance Safety US: FCC Part 15 Class B. Canada: ICES-003 Class B Safety UL/cUL 60950-1 2nd Ed. Network PTCRB, AT&T Pending: T-Mobile, Rogers, Bell Mobility, Telus Verizon Sprint N/A Outality | Storage Temperature | | -40° to + | +85° C | |
| EMC Compliance US: FCC Part 15 Class B. Canada: ICES-003 Class B Radio Compliance US: FCC Part 22,24,27 / Canada: ISED Safety UL/cUL 60950-1 2nd Ed. Safety Network PTCRB, AT&T Pending: T-Mobile, Rogers, Bell Mobility, Telus Verizon Sprint N/A Outputty MIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop | Relative Humidity | | 20% to 90%, no | n-condensing | |
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| PTCRB, AT&T PTCRB, AT&T Pending: T-Mobile, Rogers, Bell Mobility, Telus Verizon Outplity MIL-STD-810G: High Temp, Low Temp, Random Vibration. | Radio Compliance | US: FCC Part 22,24,27 / Canada: ISED | | | |
| Network Pending: T-Mobile, Rogers, Bell Mobility, Telus Verizon Sprint N/A Outplity MIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop | Safety | UL/cUL 60950-1 2nd Ed. | | | |
| Quality MIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Dro Random Vibration, Swept-Sine Vibration. IEC68-2-1: Cold Temp. IEC68-2-2: Dry Heat | Network | Pending: T-Mobile, Rogers, | Verizon | Sprint | N/A |
| | Quality | MIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J1455: Transit Drop & Handling Drop, Random Vibration, Swept-Sine Vibration. IEC68-2-1: Cold Temp. IEC68-2-2: Dry Heat | | | |

* Operating temperature excluding power supply. Power supply UL listed at 40C.

SOFTWARE SPECIFICATIONS

mPower

- Enhanced closed-source embedded Linux platform
- Node-RED application
 development environment
- Graphical web interface for configuration and management
- Seamless integration with DeviceHQ,
- MultiTech's device management platform
- LoRa network server
- LoRa packet forwarder

- Cellular connection management
- Dynamic DNS
- Secure firewall with NAT and port forwarding
- Static Routing
- Open VPN
- Remote Access
- Configuration backup and restore
- Easy firmware upgrade through
- graphical web interface
- System and network statistics

- Tool chain for creating custom images
- WAN connection via Ethernet or cellular
- Cellular PPP, DHCP client and server
- Firewall configuration via iptables
- Language support: Python, C, C++, Javascript
- Package upgrade support: Java, Perl, Ruby, Mono C#
- opkg package manager with limited package feed
- Basic router functionality with built-in Linux

ORDERING INFORMATION

MultiTech Conduit[®] AP 4G LTE Models

| Model | Description | Region |
|---------------------|--|--------|
| MTCAP-LNA3-915-041A | LTE Cat 1 mPower Programmable Access Point 8-channel, 915 MHz w/external LoRa antenna and US Accessory Kit* (AT&T & Verizon) | NAM |
| MTCAP-LNA3-915-001A | LTE Cat 1 mPower Programmable Access Point 8-channel, 915 MHz w/internal LoRa antenna and US Accessory Kit* (AT&T & Verizon) | NAM |
| MTCAP-LSP3-915-041A | LTE Cat 1 mPower Programmable Access Point 8-channel, 915 MHz w/external LoRa antenna and US Accessory Kit* (Sprint) | US |

MultiTech Conduit' AP Ethernet Only Models

| Model | Description | Region |
|----------------|--|--------|
| MTCAP-915-041A | Ethernet Only mPower Programmable Access Point 8-channel, 915 MHz w/ external LoRa antenna and US Accessory Kit* | NAM |
| MTCAP-915-001A | Ethernet Only mPower Programmable Access Point 8-channel, 915 MHz w/ internal LoRa antenna and US Accessory Kit* | NAM |

* US Accessory Kit includes power supply with NAM blade, 6 ft. RJ45 Ethernet cable, external LoRa antenna (-041 models only), mounting bracket and Quick Start Guide.

RECOMMENDED ACCESSORIES

MultiTech mDot[™]

| Model | Description | Region |
|-------------------|--|--------|
| MTDOT-915-X1-SMA | 915 MHz X1 LoRa SMA | NAM |
| MTDOT-915-X1P-SMA | 915 MHz X1 LoRa SMA w/Programming Header | NAM |
| MTDOT-915-X1-UFL | 915 MHz X1 LoRa UFL | NAM |
| MTDOT-915-M1-UFL | 915 MHz SMT LoRa UFL | NAM |
| MTDOT-915-M1-TRC | 915 MHz SMT LoRa RF Pad | NAM |

MultiTech xDot*

| Model | Description | Region |
|------------------|---|--------|
| MTXDOT-NA1-A00-1 | 915 MHz LoRa Module UFL/TRC (Single Pack) | NAM |

Go to www.multitech.com for detailed product model numbers.

Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.

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