imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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MultiConnect[®] Conduit[™]AP

Access Point for LoRa® Technology LoRaWAN™ to IP Border Gateway

MultiConnect[®] Conduit[™] AP Access Point for LoRa[®] Technology

MULTITECHO

The MultiConnect[®] Conduit[™] AP harnesses the power of the LoRaWAN[™] protocol to provide deep in-building penetration and connectivity to thousands of IoT assets. Easy to deploy thanks to integrated antennas, it can be mounted on walls or ceilings to extend 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.

The Conduit AP offers two development environments for developers and users alike. For advanced developers, the mLinux, Yocto Linux BSP integrates directly to a cloud-based LoRaWAN Network Server, enterprise data center or public operator's core network. While the AEP features an easy-to-use graphical interface set-up and includes a built-in LoRa Network Server to connect locally clustered assets on a private LoRaWAN network directly to your choice of IoT data platforms. The AEP extends complex processing to the edge to reduce upstream communication and operational costs. Either way, the access point provides your choice of 4G-LTE or Ethernet IP backhaul.

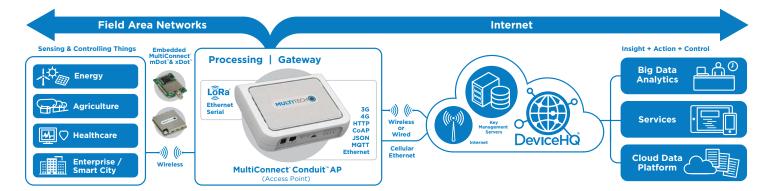
Long Ra Alliance™

BENEFITS

- Provide Improved Service Level Agreements for LoRa
- Affordable LoRa connectivity in or around commercial buildings
- Configurable Ethernet and 4G-LTE interfaces for Primary or Secondary WAN
- Quick & easy to deploy
- Certified & carrier approved

FEATURES

- 4G-LTE with 2x2 MiMo
- LoRa Omni-Directional internal antenna with +2 dBi gain for 868/915 MHz ISM band
- Ethernet RJ-45 10/100 BaseT for IP backhaul
- Support for maximum 27dBm
 Transmitter Power Output
- Optional built-in LoRa Network Server



www.multitech.com/conduitap

HIGHLIGHTS

Application Development Tailored to You

MultiConnect[®] Conduit[™] AP Access Point provides both the IBM Node-RED graphical, drag-and-drop interface and mLinux development environments, offering IT professionals, integrators and developers alike, programming choice and capability to utilize the distributed intelligence capabilities of the Conduit, with optional built in LoRa Network Server to provide analytics on incoming data and provide more actionable outgoing data to our Cloud service partners like IBM Watson and Senet Network. Get started quickly with easy to follow recipes from our partners.

Fast and Intuitive Programming with Node.js and Node-RED Technologies

Applications can be simply created and deployed by the click of a button based upon IBM's Node-RED visual development tool. Incredibly user-friendly, Node-RED is an intuitive graphical programming tool ideal for rapid prototyping, designed for IT professionals to optimize and scale the edge behavior of their IoT network.

opkg package manager

with limited package feed

Basic router functionality

Four configurable LEDs

Router/Modem management

configuration and management

Configuration backup & restore

Easy firmware upgrade through graphical web interface

DeviceHQ®, MultiTech's device management platform

System and network statistics

Seamless integration with

Graphical web interface for

built-in with Linux

Remote Access

SPECIFICATIONS

38 and B1 plink rry um Radio			
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iry			
um Radio			
100-240 VAC 50/60 Hz 0.4A External adaptor to 5 VDC 2.5A input			
27 dBm maximum output power before antenna			
Cellular (diversity) and LoRa			
RJ-45 Ethernet 10/100 port			
3FF Micro SIM			
165 x 133 x 32 mm			
1.36 kg			
PC-ABS			
-10° to +60° C*			
-40° to +85° C			
20% to 90%, non-condensing			
US: FCC Part 15 Class B. EU: EN 55022 Class B, EN 301 489-3 V1.6.1 (2013-08), EN 301 489-7 V1.3.1 (2005-11), EN 301 489-1 V1.9.2 (2011-09), EN 301 489-24 V1.5.1 (2010-10). Canada: ICES-003			
FCC Part 22,24,27 EN62311, EN301 511, EN301 908-1-2, EN301 908-1-13, EN300-220			
UL/cUL 60950-1 2nd Ed., IEC 60950-1 2nd Ed AM2			
PTCRB, GCF certified Cell Module, AT&T, Verizon			
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			
165 x 133 x 32 mm 1.36 kg PC-ABS -10° to +60° C* -40° to +85° C 20% to 90%, non-condensing US: FCC Part 15 Class B. EU: EN 55022 Class B, EN 301 489-3 VI.61 (2013-08), EN 301 489-7 VI.31 (2005-11), EN 301 489-1 VI.9.2 (2011-09), EN 301 489-24 VI.5.1 (2010-10). Canada: ICES-003 FCC Part 22,24,27 EN62311, EN301 511, EN301 908-1-2, EN301 908-1-13, EN300-220 UL/cUL 60950-1 2nd Ed, IEC G0950-1 2nd Ed AM2 PTCRB, GCF certified Cell Module, AT&T, Verizon MIL-STD-810G: High Temp, Low Temp, Random Vibration. SAE J455: Transit Drop & Handling Drop,			

SOFTWARE SPECIFICATIONS

mLinux Open source embedded Linux

distro based on the Yocto Project Tool chain for creating custom images WAN connection via Ethernet or cellular Cellular PPP. DHCP client and server AEP Enhanced closed source embedded Linux platform

LoRa network server & packet forwarder WAN Connection Cellular PPP, Dynamic DNS, DHCP Server/Client WAN connection via Ethernet or cellular LAN/WAN Security

ORDERING INFORMATION

4 G	LTE	Mod	lels
		1100	1013

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Model	Description	Region
MTCAP-LNA3-915-001L	LTE Cat 1 mLinux Programmable Access Point w/US Accessory Kit (AT&T - Verizon Dual mode cell)	US
MTCAP-LNA3-915-001A	LTE Cat 1 AEP Programmable Access Point w/US Accessory Kit (AT&T - Verizon Dual mode cell)	US
MTCAP-LEU1-868-001L	LTE Cat 3 mLinux Programmable Access Point w/EU/UK Accessory Kit (Euro cell)	EMEA
MTCAP-LEU1-868-001A	LTE Cat 3 AEP Programmable Access Point w/EU/UK Accessory Kit (Euro cell)	EMEA

Firewall configuration via iptables

C#, C++, Java, Perl, Python, Javascript,

Out of the box support for C.

Secure firewall with NAT and

Built-in Node-RED application

C, C++, Python, Javascript, Node.js, bash

development environment,

Node modules for LoRa

Language Support

Node.is, Ruby

port forwarding

Node-RED integration

Static routing

Lighttpd web server

Non-cellular Models

Model	Description	Region		
MTCAP-915-001L	Ethernet mLinux Programmable Access Point w/US Accessory Kit	US		
MTCAP-915-001A	Ethernet AEP Programmable Access Point w/US Accessory Kit	US		
MTCAP-868-001L	Ethernet mLinux Programmable Access Point w/EU/UK Accessory Kit	EMEA		
MTCAP-868-001A	Ethernet AEP Programmable Access Point w/EU/UK Accessory Kit	EMEA		

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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Services & Warranty

MultiTech's comprehensive Support Services programs offer a full array of options to suit your specific needs. These services are aimed at protecting your investment, extending the life of your solution or product, and reducing total cost of ownership. Our seasoned technical experts, with an average tenure of more than 10 years, can walk you through smooth installations, troubleshoot issues and help you with configurations.

Installation Support

MultiTech's Installation Support Service delivers priority service with the ability to work one-onone with an experienced MultiTech technical support engineer, to guide you through the installation process for our products.

Technical Support Services

At MultiTech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your MultiTech representative or visit

www.multitech.com/support.go



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