

# ALLISCOM

## MS121A CDMA 1xRTT

### Wireless Industrial Alarm Adapter (WIAA)



**Model No. MS121A**

**Feature** CDMA 1xRTT dual band 800/1900  
DTMF tone decoder  
High Performance  
Friendly GUI setting  
Battery inside

**Description** The MS121A is designed with a high performance and quality for M2M application. The MS121A can receive DTMF TONE and transmit to public IP address and assigned port. Users can be easy setting by GUI. The MS121A supports optional battery to send the event immediately when power outage.

# 1 Electrical Specifications

Power Input	DC 7~21 V
Power Current	Maximum 1.3A
<b>GSM</b>	
GSM Module	uBlox LISA-C200, CDMA 1xRTT
Band	Dual band 800/1900MHz
RX Sensitivity	-108 dBm
TX Power Conducted	+24 dBm
Down/Up Link	154Kbps
Protocols	Embedded UDP/TP, TCP/IP and HTTP
AT Commands	Enhanced AT command set IS-707.3 3GPP 27.005, 3GPP 27.007 and ITU-T V.25 3GPP 27.010 MUX protocol
Packet Data	Mode: Class B, Multi Slot10 Coding Schemes : CS1-CS4 Packet Channel: PBCCH/PCCCH
SMS Functionality	Text, PDU, MO/MT, Cell Broadcast
Approved Carriers	Verizon
<b>MCU</b>	
MCU	ST Cortex M0
Flash	64K byte
SDRAM	8K byte
Frequency	48MHz
<b>Interface</b>	
RJ11	DTMF Tone input
Mini-USB	RS232, Setting Parameter
<b>DTMF Signal</b>	
Input Signal Level	Max : 1 dBm Min : -29 dBm
Twist Accept Limit(Positive)	10 dB
Twist Accept Limit(Negative)	10 dB
Dial Tone Tolerance	18 dB
Noise Tolerance	-12 dB
Third Tone Tolerance	-16 dB
Frequency Deviation Acceptance	Max $\pm$ 1.5%
Frequency Deviation Rejection	Min $\pm$ 3.5%
Power Up Time	30ms
<b>LED</b>	
Power LED	Still On - Power on
Server Status LED	Blinking – Try Host Connection Still On – Host Connected
Internet Status LED	Off – Internet off Still On – Internet on

Signal Status LED	Off – No Signal Blinking – Weak Signal Still On – Strong Signal
Battery Discharge LED	Off – Batter Charging/No Battery Blinking – Battery Discharging
Battery Charging LED	Off – Battery Discharging/Battery Fully/No Battery Still On- Connected
<b>Operating Condition</b>	
Temperature	Operatind temperature : -10 ~ +70 °C Storage temperature : -20 ~ +85 °C
Humidity	95%RH or less

## 2 Mechanical Specifications

### 2.1 Mechanical Data

Item	Specification
Size	118(L) x 63.5(W)x 20 mm(H) (For Metal Housing)
Connector	RJ11, Mini-USB, DC Jack

### 2.2 Outlook

