Manuals+ — User Manuals Simplified.

ubudu Gateway type V2 User Guide

Contents

ubudu Gateway type V2

```
[vivek@nixcraft-wks01 ~]$ ip -c route
default via 192.168.2.254 dev br0 proto static metric 425
default via 192.168.2.254 dev wlp82s0 proto dhcp metric 600
10.8.0.0/24 dev mum-wg0 proto kernel scope link src 10.8.0.2 metric 50
10.83.200.0/24 dev lxdbr0 proto kernel scope link src 10.83.200.1
192.168.2.0/24 dev br0 proto kernel scope link src 192.168.2.25 metric 425
192.168.2.0/24 dev wlp82s0 proto kernel scope link src 192.168.2.175 metric 600
192.168.122.0/24 dev virbr0 proto kernel scope link src 192.168.122.1 linkdown
[vivek@nixcraft-wks01 ~]$ ip -c route get 10.8.0.1
10.8.0.1 dev mum-wg0 src 10.8.0.2 uid 1000
    cache
[vivek@nixcraft-wks01 ~]$ ip -c route get 1.1.1.1
1.1.1.1 dev mum-wg0 table 51936 src 10.8.0.2 uid 1000
    cache
[vivek@nixcraft-wks01 ~]$ ip -c route get 192.168.2.17
192.168.2.17 dev br0 src 192.168.2.25 uid 1000
    cache
[vivek@nixcraft-wks01 ~]$
```

Device Description

Gateway (type V2) has been designed to act as a gateway between network (TCP/IP protocol) and USB devices. Based on submodules:

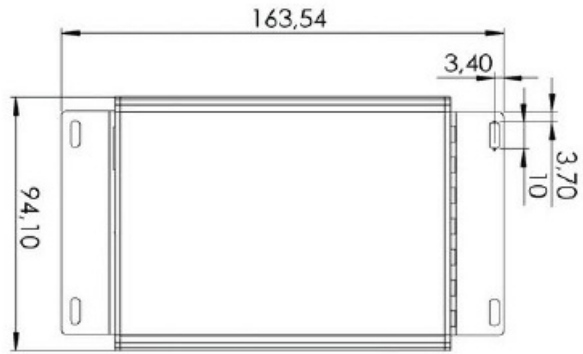- Carambola2 (MCU/NETWORK)
- Silvertel AG9700 (POE)
- USB HUB

Anodized aluminum enclosure is used.
Device is turned off by disconnecting DC plug or ETH connector (when POE powered). Normal work is indicated by orange LED placed on ETH connector, active ethernet connection is indicated by green LED.

Specification

Electrical Specification	- Power source: 5VDC, max output 3A or POE class 0 (48VDC, 15.4W) - Power consumption: - Without load: 0.4A - Witch load: 0.7A - Working temperature: 0 : +40 [°C] - MIPS 24k 400MHz CPU - Memory: 16 MB Flash and 64 MB DDR2 RAM - RF interface: WIFI - max RF output power < 20dBm - working frequency: 2412 : 2484 [MHz], 802.11 b/g/n, 2.4 GHz 7-Port USB Hub

Connectors	Front panel: - DC (barrel jack 2.5/5.5) - RJ45 (Ethernet) - SMA (dedicated antenna rn-sma-s, gain < 0.6dBi) Back panel: - 7 x USB
Software	Operating system: - customized OpenWRT based Linux Software options - V1: Python based server - V2: Optimized server written in C

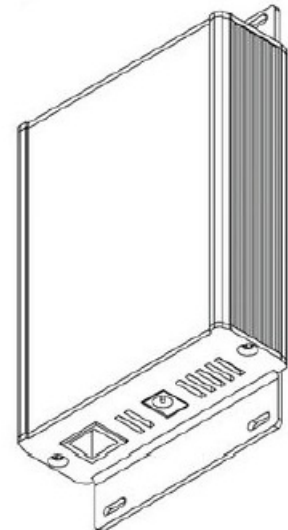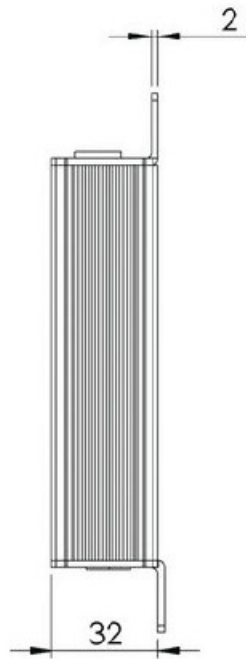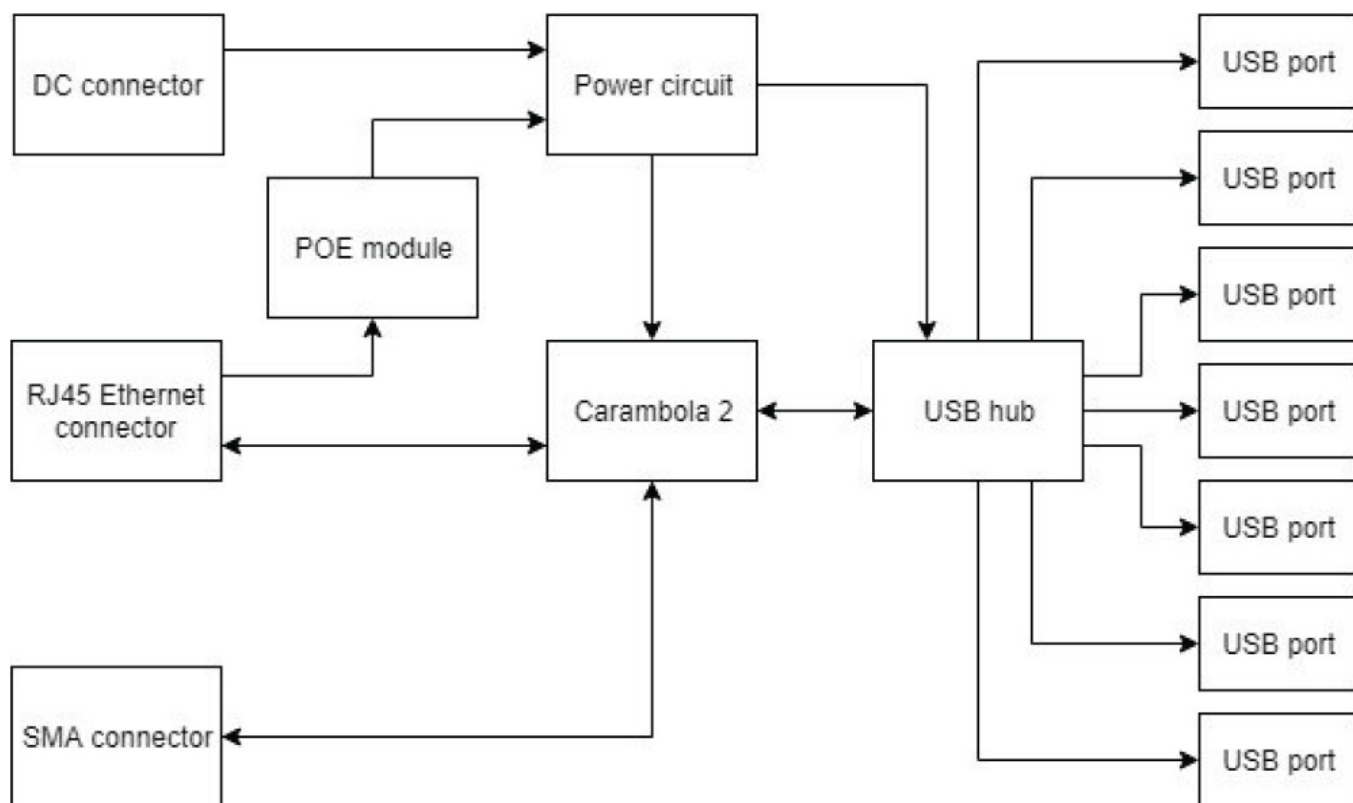|	Dimensions: 163,54 x 94,10 x 32 (L x l x H) [mm]
Mechanical S pecification	

Block Diagram of Device

Photos of Product

FCC Warnning

This equipment has been tested and found to comply with the limits for a Class B digital device, Pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a

residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving
- Increase the separation between the equipment and
- Connect the equipment into an outlet on a circuit different from that to which the receiver is • Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Documents / Resources

ubudu Gateway type V2 [pdf] User Guide
ubudu, Gateway, type V2, Carambola2, MCU, NETWORK, -SIlvertel, AG9700, POE, - USB HUB