INFORMATION SHEET

AUDIO server
[AuGePi]

This player is great for real-time or planned playing music, speech, or any other sound media recording that can be uploaded to the device. Via external connector could be connected to speakers are the typical output devices delivering sound to the listener.

The sound level is not significantly affected by the compression algorithm and by the degree of compression used in a particular recording. The electronic coupling the player may affect the output of the player. This is technically a matter of input and output impedances and can be described as a coupling factor.

Characteristics of model AuGePi v1:

- Contains 4x independent audio players based on Single Board Computer
- Connection of 4x management L3 interface via RJ45 ports with running DHCP client
- External AUDIO output [3.5” Jack MONO] for transferring audio signal to another devices
- External RELE output [DC konektor 5,5/2,5] which will be activated during playing records
- Monitoring processor temperature
- Monitoring real-time HW usage
- Monitoring internal processes with autonomous repair
- Configurable SNMP monitoring
- Configurable time synchronization
- Automatic backup of configuration files
- Dynamic web pages with reference links for integrated application systems

Operating and indications of model AuGePi v1:

- Power switch with signalization [PWR]
  - Power supply turn-on: toggling the switch into this position [1]
  - Power-off in supply: toggling the switch into this position [0]
- Micro switches [SBC]
  - SBC could be restarted by pressing the switch briefly
- State LED
  - Blue light signal indicates state and load of SBC devices.

Hardware of model AuGePi v1:

- Efficient SBC based on ARM platform is dedicated to running the AuGePi micro servers.
  - CPU 4Core (Cortex-A53) 1.4GHz
  - RAM 1GB DDR2
  - LAN Gigabit Ethernet (10/100/300Mbps) port [L3]
  - Audio Amplifier MAX98357
  - The relay module with 4 separate channels (1x per SBC)
- Certified EPS switch-mode power supply source
  - AC/DC power supply 110/230V => 5V/10A (60W)
- Rackmount 1U box material ABS
  - width 420mm
  - height 43mm
  - depth 203mm
- All of the components were tested within the frame of CE and FCC

Figure 1: Front panel

Figure 2: Back panel

Figure 3: 1U case included 4x independent AuGePi

Default credentials of the model AuGePi v1:

- For access via SSH or web interface portal UploadManager use default credentials:
  - Username: augepi
  - Password: Passw0rd

Software of the model AuGePi v1:

- Operating system based on open-source Debian.
- Great amount of unlimitedly expandable open-source tools without restrictions
- Option of using own scripting languages (shell, perl, python and others) without restrictions

http://augepi.doit.sk

ARM - Advanced RISC Machine
CE - European Conformance
EPS - External Power Supply
FCC - Federal Communications Commission
SBC - Single Board Computer