AMBIBOX

The state of the art
Music Player
for businesses

POWERED BY ASUS

▶ DESIGNED TO NEVER STOP SINGING

- AmbiBox is our statement when it comes to Music Player for businesses, and it's inception is the result of 5 years of experience with embedded music Players.

- We've partnered with ASUS to offer a unique combination of great sound, stability and low power consumptions.

- It sounds great, because it integrates an Audiophile-grade Digital to Analog Converter, capable of 24 bit and 192 KHz audio playback.

- It's rock-solid stable, since it features a 16GB solid state memory, and the Operating System is an improved version of Volumio, the most popular audio distribution for embedded PC, active on more than 140k devices.

- And it's a miracle of efficiency, since it draws just 1.5 Watts when operating.

▶ MAIN FEATURES

- High Quality Music Playback.

- Compatible with the most used music formats and streams.

- Integrated 16GB Solid State Memory: much more reliable than SD Card storage.

- Remote control via AmbiMusic CMS.

- Automatic firmware, music and settings update.

- Remote assistance, diagnostics and recovery.

- Several fault tolerant strategies to allow for uninterrupted music playback, online and offline.

- Music scheduling, crossfading, auto-play, auto-volume and several customization options to fit any scenario.

- Focus on security with integrated firewall, encrypted connection and tamper-proof file-access.

Low-power consumption
Only 1.5 Watts when operating

Rock-solid
Network fault tolerant and rock-solid OS

Wireless Connectivity
Integrated wireless and wired connectivity

Audiophile grade sound
On board 24 bit 192 KHz DAC for a superb sound quality

Remote control
Remote management, diagnostics and assistance

Auto-update
Auto update of firmware,music and settings

AMBIMUSIC

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▶ SOFTWARE SPECIFICATIONS

PLAYER ENGINE
- Filetype support: MP3, WAV, FLAC, Vorbis, Opus, Musepack, AAC, ATRAC, WAV, AIFF, AU, WMA, DFF, DSF
- Stream format support: ShoutCast, IceCast
- Online\offline playback differentiation strategies
- Scheduling of playlists, music files and streams on hourly, daily or weekly basis
- Auto-play on startup (if selected)
- Auto-volume on startup (if selected)
- Crossfade (if selected)
- Selectable fallback playlist in case Stream is not available

FAULT TOLERANCE
- Silence Detection with several backup strategies for uninterrupted music playback
- Web-stream activity detection and backup strategies for uninterrupted music playback
- Offline\Online automatic detection with offline backup strategies
- Auto-recovery from fatal system errors

STABILITY
- Operating system runs on RAM, writing to drive only when necessary
- Immediate sync to disk in case of write, to allow sudden turn-off
- Conservative CPU governor and dynamic cores allocation to minimize heat generation
- Auto-recovery of filesystem errors
- Fallback strategy in case of power-losses during firmware updates

AUTO-UPDATE
- Automatic OTA Firmware Updates
- USB Firmare Updates
- Automatic Syncing of Music files and settings
- Selectable Time-windows for firmware auto-update, music files and settings
- Internet bandwith assessment to avoid disruption in music playback during updates

TIME-CRITICAL OPERATIONS
- Hourly, daily, weekly schedule of music
- Auto update of time via NTP
- Real Time Clock management and backup
- Selectable Time-zone

REMOTE ASSISTANCE AND DIAGNOSTICS
- Remote secured tunnel for diagnostics and remote assistance
- Remote logging for troubleshooting and diagnostics
- Event reporting and presence system

NETWORKING
- DHCP and static IP address assignment
- Configurable DNS
- WEP\WPA\WPA2 Wireless Encryption supported

SECURITY
- LTS Support and security patches via OTA Updates Integrated Firewall
- Secure storage of settings of Music files and settings
- User control access via tamper-proof-links of Music files
- Requires outbound ports: HTTP 22, 80, 443, 3000. UDP 123

▶ HARDWARE SPECIFICATIONS

CPU
Rockchip Quad-Core RK3288 processor

RAM 2GB Dual Channel DDR3

Storage
16GB eMMC
Micro SD(TF) card slot

LAN Gigabit

Wireless 802.11 b/g/n

Audio 24 bit 192 KHZ, >90 dB SNR

USB Ports 4 x USB 2.0

Real Time Clock
Highly Accurate RTC ±2ppm from 0°C to +40°C

Dimensions
90 x 70 x 25 mm (3,54x2,75x0,98 inch)

Power Adapter
CE Certified 5V 2,5A Adaptor with ON\OFF Switch

Case
Scratch Resistant ABS, Colour Black

Weight
75g

Warranty
Lifetime (under Loan-for-use terms)

Contingency for faulty hardware resolution
Immediate shipping of new Ambibox free of charge (old AmbiBox to be shipped for RMA at customer's expense)