MULTI-ROOM DIGITAL FOR THE AUDIOPHILE

A demonstration system seamlessly delivering digital high-resolution audio throughout the house from a central library, using a modern and beautiful interface. Rediscover your music!

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- ✓ Central music management and storage for a very large library
- ✓ Extensive visual, meta and contextual information about artists and albums
- ✓ Beautiful and easy to use interface from computers, tablets and phones
- ✓ Five main zones, independent or grouped
- ✓ Can play on phones and computers too
- ✓ Bit-perfect, high-resolution 24 bit / 192 kHz PCM across the network
- ✓ DSD supported
- ✓ Affordable, low-power but very high quality end points
- ✓ Simple to expand
- ✓ Can make use of very high-end audiophile equipment
- ✓ Very low maintenance

Description

This is a multi-room (5) Sonos-like installation, but on steroids, with a better interface, better metadata and context around the music, and bit perfect up to 24/192 PCM (it can do better if you have the equipment. It also handles DSD, and soon MQA. The next software version will also allow for systematic output as DSD as well as other DSP capabilities). It provides central storage and management of music, with distributed control and play, and the ability to synchronize play on some or all rooms.

- **Network infrastructure**: Internet router, 3x AC1200 dual band (2.4 and 5GHz) Wi-Fi access points, single ESSID for AP and frequency roaming, 8 ports Gigabit Ethernet switch (wired house)
- **Server**: laptop, 3rd gen Core i5, 4 GB RAM, hard drive with enough capacity for the system (to be replaced eventually by a small SSD), 2x external USB drives for music storage (Total of 2.5 TB available, 600 GB used at the moment, much EAC ripping still ongoing), minimal Linux server operating system with automated updates (base memory usage is 80 MB, 7 GB on disk), Samba for sharing the external drives and allowing easy remote access to storage from macOS and Windows machines, Roon server. Many online radios (local, French and international) setup. This is setup as an appliance, a black box. Nothing on screen, nothing to be touched or operated locally. Only the on/off switch is of any use.
- **Main system** in the master bedroom is made of a Forte F44 pre-amp and F4a amp on big Tannoy D700 speakers. Raspberry Pi with Hifiberry DAC+ Pro (on-board clocks to remove any potential chance of jitter), wired to the network, Hifiberry Roon Ready image with Roon Bridge
- **Another system in the family room** is using an integrated Amplifier + DAC, Focal Super Bird 2.1, Raspberry Pi with Hifiberry Digi+, Toslink optical cable, wired to the network, Hifiberry Roon Ready image with Roon Bridge
- **Two systems for another bedroom and the kitchen** are using Focal XS Book active bookshelf speakers, Raspberry Pi with Hifiberry DAC+ Pro (on-board clocks to remove any potential chance of jitter), wired to the network, Hifiberry Roon Ready image with Roon Bridge
- **A last system for the garden**, using Focal XS Book active bookshelf speakers, Raspberry Pi with Hifiberry DAC+ Pro (on-board clocks to remove any potential chance of jitter), on Wi-Fi (still 2.4 GHz N, 150 Mbps. Not too much interference in the neighbourhood. May add a dual band AC600 USB dongle, not for speed, but for agility), barebones Raspbian OS with automated updates, Roon Bridge install
- **Remote interfaces** are provided by a Lenovo foldable laptop with Touchscreen running Windows, MacBook Air and another Windows laptop, as well as various phones and tablets.

The family is very, very happy with this. One system for all their music, while remaining independent with their individual choices and tastes (use of individual profiles), but with the ability to make the whole house thump on a single unified beat! And such a great interface, one that all can use, and that allows fantastic large library surfing like no other.

For a demonstration appointment, more details or a discussion on such a deployment in your home, do not hesitate to contact Thierry at thierry@goodideasdubai.com or on +971 50 550 6449.
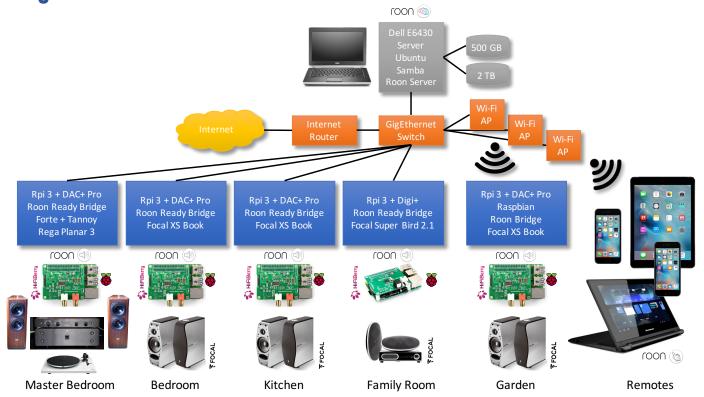
Hi-Res MUSIC

roon   HiFiBerry   FOCAL

Diagram

roon

Dell E6430
Server
Ubuntu
Samba
Roon Server

500 GB

2 TB

Internet

Internet
Router

GigEthernet
Switch

Wi-Fi
AP

Wi-Fi
AP

Wi-Fi
AP

| Rpi 3 + DAC+ Pro
Roon Ready Bridge
Forte + Tannoy
Rega Planar 3 | Rpi 3 + DAC+ Pro
Roon Ready Bridge
Focal XS Book | Rpi 3 + DAC+ Pro
Roon Ready Bridge
Focal XS Book | Rpi 3 + Digi+
Roon Ready Bridge
Focal Super Bird 2.1 | Rpi 3 + DAC+ Pro
Raspbian
Roon Bridge
Focal XS Book | |

Master Bedroom   Bedroom   Kitchen   Family Room   Garden   Remotes

Kit list

Infrastructure	
Linksys Router, Switch and AC1200 Wi-Fi Access Point	1
Linksys 8-port Gigabit Ethernet Switch	1
D-Link AC1200 Wi-Fi extenders in wired Access Point Mode	2
Cat5 Ethernet cables	14+
Server	
Dell Latitude E6430 – 3rd generation Core i5 Processor – 4 GB RAM – 500 GB HDD	1
Western Digital Passport 500 GB for Music Storage	1
Western Digital Passport 2 TB for Music Storage	1
Zones	
Raspberry Pi 3	5
Hifiberry DAC+ Pro	4
Hifiberry Digi+	1
Focal XS Book Active Speakers	3
Focal Super Bird 2.1 Integrated Amp + DAC + Speakers + Subwoofer	1
Forte F44 Pre-Amplifier	1
Forte F4a Power Amplifier	1
Rega Planar 3 Turntable	1
Tannoy D700 Speaker	2
Remotes	
Lenovo Touchscreen laptop	1
iPhone 6S	3
iPad	1
Toshiba Laptop	1
Apple MacBook Air	1
Software	
Ubuntu Linux Server x64 with Samba	1
Roon Server – Linux x64	1
Roon Ready Hifiberry image with Roon Bridge	4
Raspbian Operating System with Roon Bridge	1
Roon Remote macOS	1
Roon Remote Windows	2
Roon Remote IOS	4

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