

# Indoor YOI - Low Power

The Tiniest Device-to-Device Router for Broadband Wireless Internet Networking.



## Use Cases:

- Easy to deploy Public Wi-Fi infrastructure
- Temporary Internet for event
- Confined & private Internet for enterprises
- In building mobile Internet (3G, 4G) network

**Generate Your Own Internet everywhere, with the tiniest Device-to-Device hotspot. Indoor YOI – Low Power are handheld routers that one can deploy in a few minutes. They provide an instant Internet Infrastructure (Wi-Fi, 3G, 4G) with no constraint of cabling. The Indoor YOI – Low Power gives access to both local and global Internet. One can keep the network offline and enjoy the local services hosted in the YOI in total privacy. A group of Indoor YOI – Low Power can inter-operate with any other Green PI device to scale Participatory Internet up.**

## YOI (Your Own Internet device)

YOI is an embedded Linux router equipped with Green Communications' software (GreenSoft). Each router comes with 2 Wi-Fi interfaces: one to create a network with other YOI, and the other to provide access to smartphones, tablets, laptops, or any other Wi-Fi device. YOI features a web server, so one can provide local content, services, and applications to the network. You may also configure YOI as gateway to the Internet. In this case, local traffic stays local and global traffic is sent across the gateways to the Internet.

- **Plug & Play:** YOI routers are easy to deploy. Within minutes, a group of participants can create an instant communication network by simply turning the devices on. This sets a Participatory Internet (Green PI) up, providing both local-based content and global Internet access.
- **Customizable:** YOI devices are open. The system administrators can use SSH or serial connections to access an interactive shell on their devices, and operate them like any regular Linux system. Our products also provide network administrators and application developers with the raw network data, using standard protocols, so they can personalize the platform or build new applications and services.
- **Autonomous:** Some networks need to stay offline (disconnected from the Internet) for privacy reasons or because the deployment area is isolated. YOI does not require Internet access. This kind of confined Internet still offers messaging, SIP, XMPP, or sharing applications with no need for any external cloud server.

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Broadband Wireless Internet Networking.



- Ethernet**   ▪ 1 Ethernet port (10/100/1000 Mbit/s)
- Wi-Fi**       ▪ 2 Wi-Fi interfaces (a, b, g, n)
- Suggested operation**   ▪ Wi-Fi 1: backhaul  
                                  ▪ Wi-Fi 2: access point  
                                  ▪ Ethernet: Internet when available
- Frequency**   ▪ 2.4 GHz and 5 GHz
- Antenna**       ▪ 4 external antennas (2 per interface, RP-SMA, omnidirectional, 5 dBi each)
- Wireless rates**   ▪ Up to 300 Mbit/s
- Encryption**   ▪ WPA2/RSN (access and backhaul)
- Operating system**   ▪ Custom Linux system (based on Buildroot)
- CPU**           ▪ Cortex-A9 800 MHz Dual Core
- RAM**           ▪ 512 MB
- Other Interfaces**   ▪ 1 USB OTG, 1 Micro-HDMI
- Environmental features**   ▪ -40°C +85°C
- Dimensions**    ▪ Approx. 85 × 105 × 35 mm (casing without antenna)
- Power supply**    ▪ Power through Ethernet (passive PoE) or Barrel Jack DC from 8 to 60 V (AC adapter included)
- Power Consumption**   ▪ < 5W
- Weight**         ▪ 324g
- Software**       ▪ Each YOI comes with a GreenSoft license