

# Vodia IO



Vodia IO takes the router to the next level. By including a telephony server (PBX) in the device, it is now possible to address small businesses with a complete solution for their IT infrastructure. The Vodia IO contains everything needed on customer premises and makes it easier to install and maintain the solution compared to solutions based on separate components.

This addresses clinics, shops, restaurants, lawyers, and many other businesses that need Internet access and a telephone solution for their day-to-day operations. Thanks to powerful modern technology based on the latest Intel® chipset, the device can handle up to 16 parallel calls which typically serves up to 50 extensions.

The built-in broadband router offers the latest high-speed options with WAN Gigabit, Gigabit Fiber, VDSL2+ or ADSL2+. Vodia IO also provides all the necessary options to manage the local network with wired Ethernet and WiFi. The device can operate standalone, but can also be operated embedded in another network, for example when an external firewall is required.

The integrated DECT base station has the capability to register up to 6 handsets. 2 FXS ports can be used to connect legacy devices to the box.

The web interface can be used for local and remote management as well as front end for users. There is no need to install additional software for remote access.

## Interoperability

Vodia IO works with a large range of VoIP and DECT products. Popular VoIP phones are available from Cisco, Polycom, Yealink, Gigaset, Snom, Alcatel, Grandstream, Avaya and other handset manufacturers, providing an unprecedented choice of devices for customers.

DECT devices that support the CatIQ or GAP standard can be paired with Vodia IO. Analog devices can be

plugged into the FXS ports. This makes it easy to integrate FAX devices and special devices e.g. for door opening, alarm systems and POS.

Vodia IO can also be used with SIP-based paging and building automation devices. The PBX supports a large range of paging functions suitable for shops, clinics and offices.

## Plug and Play

Vodia IO automatically detects the region and set up basic settings like language, time zone and country codes. When VoIP phones are plugged into the LAN, Vodia IO detects the devices and offers automatic provisioning in the web interface, dramatically simplifying the setup. Buttons can be assigned through the administrators web frontend or directly on the phone (depending on the phone type).

SIP trunks can be set up using a set of predefined provider settings, so that only the username and the password has to be entered. For carrier rollout, SIP trunks can be set up to be shipped with the license key for the device.

DECT devices can be paired using the display on Vodia IO. They are automatically assigned to extensions on the system.

## WiFi

Vodia IO comes with a powerful WiFi subsystem. It supports Gigabit WLAN with built-in directional antennas. Multiple SSID can be assigned to the device, e.g. for internal and external users.

For guest services, Vodia IO can intercept Wifi clients and guide them through the setup process.

# Technical Data

## Technical Overview

- Broadband router with support for DSL, Fiber and WAN
- IEEE 802.11ac and 802.11bgn WiFi
- Integrated DECT base station for 6 handsets
- Ethernet Gigabit switch with 4 ports
- 2 USB 3.0 ports
- 2 FXS ports for analog devices
- Built-in PBX for up to 16 concurrent calls

## Router Specifications

- Router for IPv4 and IPv6
- Built-in DHCP Server with support for option 66
- Firewall with NAT / DMZ
- NTP client and server
- Support for various DSL standards like VDSL2+ or ADSL2+
- Support for Gigabit Internet access through Fiber adapter
- WAN connector for external modem or firewall

## WiFi Features

- Support for 2.4 and 5 GHz frequencies
- 802.11ac WiFi (up to 1300 Mbits/s), 802.11bgn WiFi (up to 600 Mbits/s)
- Built-in directional antennas
- Subscriber authentication for public WiFi

## DECT Base Station

- DECT base station for up to 6 handsets and 3 simultaneous calls
- Support for DECT CAT-iq 2.0 and DECT GAP
- Device pairing from Vodia IO display

## Software Specifications

- Vodia PBX with capability for up to 50 users and 16 concurrent calls\*
- Free 4 standard concurrent call license included
- Web-based management interface can be enabled for remote management
- LAN-based VoIP phone zero-touch provisioning
- Capability for call recording (external storage)

## Cell Phone Integration

- Cell phone twinning through PSTN
- Virtual private assistant including DISA
- Automatic provisioning of popular cell phone VoIP apps
- Cell phone callback in voicemail
- SMS notifications

## SIP Trunks

- Large number of predefined SIP trunks
- Support for UDP, TCP and TLS-based SIP trunks
- Support for registration and IP address-based trunks
- Simplified SIP trunk setup for selected SIP trunk providers
- Support for automatic provisioning of SIP trunk along with PBX license

## Security

- Voice encryption with SIP/TLS, SRTP/SDES or ZRTP
- HTTPS web server, client and provisioning
- Support for ACME (letsencrypt.org) X.509 certificate management
- TLS 1.0, 1.1 and 1.2 support
- Password policy enforcement
- Google login authentication
- Encrypted storage for passwords and sensitive data
- Automatic white- and blacklisting with anti-hacking mechanism (DoS Defense)
- Manual whitelisting of administrative and general addresses and ranges
- Secure FTP and TFTP server for legacy device LAN provisioning
- Anti-port scanner mechanism

## Network

- Far-end and near-end NAT traversal with session border controller
- IPv4 and IPv6 support for SIP, HTTP and other protocols
- DNS A, AAAA, SRV, NAPTR and ENUM support
- Multiple ports for SIP, HTTP, TFTP, FTP, LDAP and NTP
- QoS support
- Automatic public IP address determination
- Traffic monitoring and reporting
- SNMP server, newrelic client
- SMTP (email) client

## Hardware Specifications

- Size: 265 x 195 x 55 mm (Vodia IO itself)
- Weight: 930 g
- Memory: 64 MB of build-in Flash memory
- Power consumption: 42 W max
- Ambient temperature: 32 °F – 104 °F (0 °C – 40 °C)
- Wall-mount: Two angles
- Display: OLED Display White 128 x 32 pixels

\*Availability of some features depends to the Vodia license type