OBi1000 Series IP Phones

High Fidelity Voice Quality, Cloud-Management and Premium Functionality at an Affordable Price

Detailed Technical Specifications

OBi1000 Series Business-Class Color IP Phones

With Support for 24* or 12 Lines or Call Appearances and Up to Six SIP, Google Voice™ and One OBiTALK VoIP Services

High-Definition 'HD' Voice for Crystal-Clear Calls

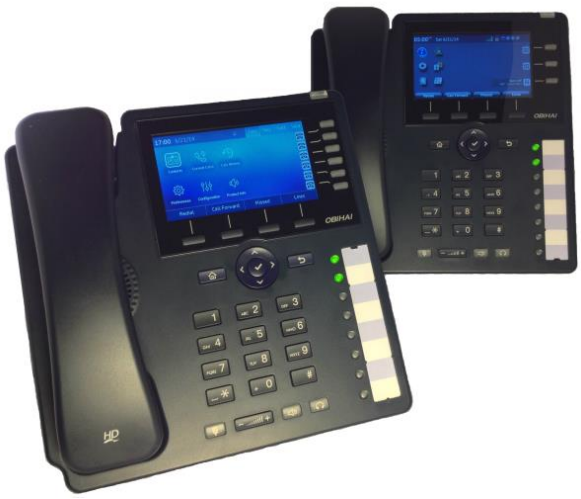
OBi 1000 Series IP phones are designed from the outset to support High Definition (HD) voice calling. From the device's physical acoustics through to the digital conversion of audio, Obihai's engineers have fine-tuned every element to ensure a crystal clear calling experience.

OBi Phones and OBiTALK Cloud Management

OBi 1000 Series IP phones are managed remotely via the OBiTALK cloud-management portal using any mainstream browser, enabling fast and easy deployment and maintenance. The always-on remote management and diagnostic capabilities enable IT and support staff to manage and troubleshoot devices regardless of location and even deploy new devices without the requirement for a site visit. Additionally, OBiTALK can help keep device firmware up-to-date with new features as they are released, further enhancing the user's experience and the enterprise's investment.

Functionality That's Easy to Use

Commonly used call functions such as putting a caller on hold, transferring, picking-up or conferencing calls are intuitive to use and set-up. Other calling and user features are easily programmed into either the line keys next to the display – in total, there are up to 24* – or the eight (8) programmable keys within easy reach on the right side of the phone body. This allows for a customizable user experience based on the intended use of the device. The OBi 1000 Series IP phones are adaptable to the user and their job role, though creating a more efficient call management platform for the business and conveying a more professional image to its customers.



OBi IP Phone Features	OBi1062 *Professional*	OBi1032 *Manager*
VoIP Services	**6**	**6**
Lines / Call Appearances	**24**	**12**
Physical Keys (All Programmable)	14	11
Line / Call Appearance Keys	6	3
Page Tabs - Total Available Line Keys	4 - 24	4 - 12
Feature Keys	8	8
Total Programmable Keys	**31**	**19**
Side Car Support	Yes - 2	Yes - 2
Keys per Side Car	16	16
USB 2.0 Ports	**2**	**2**
OBiLINE FXO Adapter∞	Yes	Yes
USB Storage Media	Yes	Yes
OBi WiFi	NA (Built-In)	Yes
OBiBT (Headset or Mobile Phone Pairing)	NA (Built-In)	Yes
Headset Support	**Yes**	**Yes**
RJ9	Yes (EHS)	Yes (EHS)
3.5mm	Yes	Yes
Bluetooth	Yes – Built-in	Yes with OBiBT
WiFi (802.11n)	**Yes**	**Yes with OBiWiFi**
Ethernet Ports (RJ45) and Type	**2 Gigabit-Ethernet**	**2 10/100 Fast Ethernet**
Power Over Ethernet (802.3 af)	**Yes**	**Yes**

Features of the OBi1000 Series Business IP Phones:

- Large Vivid Color Display – User Configured Themes and Multi-Dimensional Navigation with Top-Anchored Time and Date
- Remotely Customizable via XML Download – User Interface Labelling, Key/Button Functionality, Applications
- Up to 24 Call Appearances* – Programmable Across Six (6) VoIP Services (SIP and Google Voice) + OBiTALK
- Universal Interoperability with SIP and VoLTE Call Control Platforms
- Secure Remote Provisioning and Management Versatility via SP's In-House System and/or OBiTALK Cloud-Management
- Zero-Touch Customization and Service Activation APIs to Minimize Deployment Costs / Complexity
- High Definition Speech Technology for Crystal-Clear Conversations - VoIP Codecs Supported: G.722, G.711, G.726, G.729, iLBC, OPUS∞
- Full-Duplex Speakerphone with Built-In Class D Amplifier and Audio Equalizer
- Headset Support via RJ9, 3.5mm Jacks (EHS Support) or Bluetooth
- Dual Ethernet with Power over Ethernet (PoE): Gigabit Ethernet (OBi1062) or Fast Ethernet (OBi1032)
- Integrated WiFi Connectivity – Built-in or Via OBiWiFi USB Adapter
- 16-Key Side Car Option – Up to Two Side Cars per Phone
- Built-In Five Party Conference Bridge
- Personal Contact Phone Book with Import/Export/Sync Functions, Call History, Picture Caller ID
- Obihai Call Routing and Bridging Technology
- Global Deployment: Language Localization and Country-Specific Dialing, Ringing, In-Call Tones

Developed, Designed and Supported by Obihai Technology

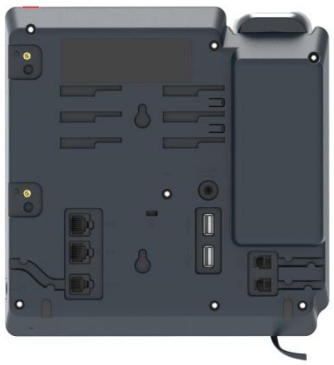
The OBi1000 Series IP phone electronics and acoustics are designed, developed and supported in-house, by Obihai engineers in California. This includes the SIP software stack used on devices to ensure a reliable experience with all major voice platforms and service provider deployments. The OBi1000 Series IP phones are built with a high-performance system-on-a-chip platform to ensure high quality voice conversations. OBi1000 Series IP phones support high-availability and reliability with in-service, unobtrusive management and software upgrade support.

Model: **OBi1062 Professional** – 24 Line IP Phone

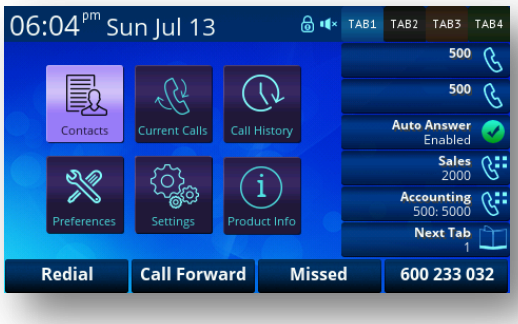
OBi1062 with Side Car

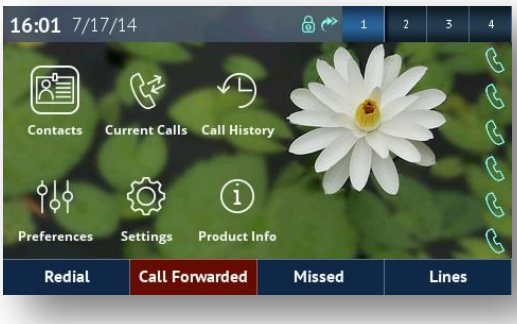
Model: **OBi1032 Manager** – 12 Line IP Phone

OBi1032 with Side Car



Rear view of the OBi1062 / OBi1032





OBi1062 Main Display – Tomáš / Ulrik Themes

Comprehensive Support for Major IP Voice Platforms and Services – SIP and VoLTE

In addition to support for most industry-standard SIP-based voice services, the OBi IP Phone adds support for Google Voice™ as well as device-to-device calling using the OBiTALK voice protocol – all configured and managed by the network/service administrator/owner. The OBi 1000 Series IP phones also work with major VoIP softswitch platforms such as Asterisk, BroadSoft, Metaswitch, FreeSwitch and Kamailio.

The OBi1000 Series IP Phones Are Complemented by Other OBi Products & Services

OBiTALK: A web portal for secure, cloud management and service configuration of Obihai devices.

OBiON iPhone, iPad, iPod touch & Android Devices: An application for iPhone, iPad, iPod touch and Android devices which makes possible placing and receiving calls to/from other OBi endpoints.

OBi Universal VoIP Adapters: With models ranging from a single phone port to eight, OBi Universal Adapters are supplying VoIP connectivity at homes and businesses worldwide, in over 180 countries.

OBiON PC: A middleware application for a PC that facilitates placing and receiving calls to/from other OBi endpoints.

More Calling Features of the OBi1000 Series IP Phones:

Configurable to Work with Many Popular Call Control Platforms or Any SIP Compliant Internet Telephone Service

Automatic Attendant for Simplified Call Routing (AA)

Call Back Service – Automatic Call Back to Connect User to the AA to Make a New Call or Ring the Attached Phone

OBiTALK Web Portal Integration – Management, Troubleshooting, Configuration, Status

Robust Telephony Features:

- Multi-Line / Multiple Calls
- Shared Call / Bridged Line Appearance
- Busy Lamp Field (BLF) – Regular, Pick-up and Speed Dial
- On-Hook Dialing
- Caller ID – Name & Number, Photo
- Call Waiting, Call Queued
- Multiple Distinctive Ringtones Based on Who is Calling
- Auto Answer Intercom Call, Page Call
- Page Groups (2)
- Call Hold
- Music on Hold
- Call Swap
- Call Park and Call Un-park
- Call Pick-Up – Selective and Group
- Message Waiting Indication - Visual and Tone Based
- Speed Dialing by code of 99 OBi Endpoints, Buddies or Numbers (E.164 or URI)
- Call Logs (200) – Dialing from Call Logs
- Personal Phone Book – Each Entry with Multiple Numbers, Photo, Grouping
- Hot Line and Warm Line Calling
- Five-Way Conference Calling with Local Mixing
- Call Forward - Unconditional
- Call Forward on Busy
- Call Forward on No Answer
- Call Transfer -- Blind or Attended
- Anonymous Call
- Block Anonymous Call
- Do Not Disturb – Do Not Ring
- Call Return – Call Back on Busy
- Repeat Dialing
- Immediate divert
- Multiple Ringtones – Upload Custom Ringtones
- Screen Saver – Upload Screen Saver with Slideshow Image(s)
- Secure Encrypted Voice Communication Support
- Independent Mic and Speaker Volume Adjustment: Speaker, Handset, RJ9 Headset, 3.5mm Headset, Bluetooth Headset
- Administrator Password Protected Factory Reset
- Zero-Touch Customization – Factory Defaults Defined by Service Provider
- OBiTALK Cloud Management / Troubleshooting
- Syslog Event Logging

General Information

Brand	Obihai Browse Obihai Devices
Manufacturer	Obihai
Hardware Designer	Obihai Technology, Inc.
OBi1000 Series Model Names	OBi1062, OBi1032
Release Date	July 2014

Visual / Audio / Mechanical Features

Color Display	TFT RGB - 16.7M Colors - 480 x 272 Resolution - 4.3" (Measured Diagonally)
Compact Foot Print	31 Programmable Keys (OBi1062) in a 21 cm^2 (8 in^2) Area (19 for OBi1032)
Handset	Comfortable Weighted Handset with Acoustic Electronics for High Definition
Headset Interfaces	RJ9, 3.5mm, Bluetooth (Bluetooth Built-In on OBi1062) – w/ Auto Detection
Electronic Hook Switch	Yes – Kit Sold Separately
Side Car Expansion Module	Up to Two (2) Side Car Expansion Modules – 16 Programmable Keys
Speakerphone	3 Watt with Class D Amplifier
Line / Call Appearance Keys	6 – OBi1062 | 3 – OBi1032 (Programmable)
Feature Keys	8 (Programmable)
Illuminated Keys	Line, Feature, Mute, Speaker, Headphone
Non-Illuminated Keys	Keypad, Home, Cancel/Return, 5-Way Navigation, 4-Context Sensitive Soft Keys
Volume Adjustment Up/Down Key	Independent Adjustment for Ringer, Headset, Speaker, Handset
Kensington Lock Port	Fits to Standard Locking Apparatus to Secure Device Location
Multi-Position Stand	Removable Stand Accommodates Two (2) Angles for Desktop Mounting
Wall Mounting	Yes – Kit Sold Separately
Wired Network Connectivity	2 x Ethernet – Gigabit Ethernet on OBi1062 | Fast Ethernet on OBi1032
Wireless Network Connectivity	802.11n – Built-in on OBi1062 | May Use OBiWiFi USB Module on OBi1032

Management – Configuration

Local Access Interface	IVR, Web Page – Password Protected (Admin & User Level Log-in)
Remote Access Interface (Secure)	OBiTALK Cloud-Management via Portal and/or APIs, Syslog (Multi-Level Granularity), Invokable via SIP Notify, Web, Provisioning
Device Web Page Standard	HTTP v1.1, XML v1.0
Remote Provisioning	OBiTALK Cloud, XML via TFTP or HTTP, TR069 / TR104 (Parameter Name Syntax)
Secure Remote Provisioning	OBiTALK Cloud, SSL via HTTPS , Encrypted XML via HTTP or TFTP – Dedicated User Name & Password
Secure Remote Firmware Update	Encrypted Binary File via TFTP or HTTP + Dedicated User Name & Password
Customization	OBi-ZT: Obihai Zero-Touch Automatic Customization & Configuration **
Call History (CDRs)	Call Detail Records on OBi Web Page, Export to XML
LED Indications	Message Waiting, Line/Call Key Status, Feature Key Status
RTP Statistics	RTP Transport Type Audio Codec Type (Tx/Rx) RTP Packetization - ms (Tx/Rx) RTP Packet Count (Tx/Rx) RTP Byte Count (Tx/Rx) Peer Clock Differential Rate - PPM Packets In Jitter Buffer Packets Out-Of-Order Packets Interpolated Packets Late (Dropped) Packets Lost Packet Loss Rate % Packet Drop Rate % Jitter Buffer Length - ms Received Interarrival Jitter - ms DTMF Digits Received Jitter Buffer Underruns Jitter Buffer Overruns Sequence Number Discontinuities Skew Compensation - ms
Session Information	SIP Session Status OBiTALK Status Service Status
System Settings Back-Up / Restore	Save & Restore Configuration via XML file to / from a Local Folder
OBiTALK Portal Set-Up Wizard	Secure, Easy Configuration Via Cloud

Security

Local Access Interface	IVR Password - Password Protected Login to Local Web UI
Remote Access Interface	User Name & Password Access via HTTP, TFTP – HTTPS
Device Web Page Standard	HTTP v1.1, XMLv1.0 – User and Admin Level Access
Secure Remote Provisioning	TFTP, HTTP, HTTPS (Encrypted XML or Flat File)
Signaling Authentication / Encryption	TLS
Media Authentication / Encryption	SRTP
HTTPS for Client and Server	Yes
Configuration File Security	Authentication and Encryption and URL Syntax with Password
Client SSL Certificate	Manufacturer-Installed Certificates (MIC)
Authentication	IEEE 802.1X, EAPOL ∞

Network – Application Details

Data Networking	MAC Address (IEEE 802.3) WiFi Support (IEEE 802.11n) – OBi1062 UDP (RFC 768) TCP (RFC 793) SDP (RFC 4566) HTTP/HTTPS IP version 4 (RFC 791) – Static IP and DHCP Support (Upgradeable to IPv6) ICMP (RFC 792) SNTP (RFC 4330) ARP - Address Resolution Protocol Domain Name System (DNS) A Records (RFC 1706) & SRV Records (RFC 2782) RTP (RFC 1889, 1890) RTCP (RFC 1889) DHCP Client (RFC 2131) PPPoE (Point-to-Point Protocol over Ethernet) client (RFC 2516) MAC Address Cloning Local DNS Records (24) DNS Query Control VLAN Support (IEEE 802.1Q/p) LLDP (LLDP-MED) Ethernet Switch Speed Auto-Negotiation
VoIP	24* (12 - OBi1032) Service Line Configuration Profile Assignments (Line 1-24) Six Service Subscription Profile Assignments (ITSP 1-6) SIPv2 (RFC 3261, 3262, 3263, 3264) SIP over UDP SIP over TCP SIP over TCP with TLS 24 SIP Service Provider Service Sessions – Concurrent Operation 1 OBiTALK Service Session SIP Proxy Redundancy – Local, DNS Based SVR, Primary & Secondary Fallback List Restrict Source IP Address Maximum Number of Sessions – Independent per Service Trunk Groups (4) Voice Gateway – Direct Dialing (8) Voice Codec Support: G.722 G.711 A-Law (64 kbps) G.711 µ-Law (64 kbps) G.726 (40, 32, 24, 16 kbps) G.729a (8 kbps) iLBC (13.3, 15.2 kbps) OPUS ∞ Codec Pre-selection Code Voice Processing per SIP Service – TX/RX Audio Gain, Echo Cancellation Adjustable Audio Frames per Packet Codec Name Assignment Codec Profile (2) & OBiTALK Service Dynamic Audio Payload Packet Loss Concealment Jitter Buffer (Adaptive) STUN ICE SUBSCRIBE / NOTIFY Framework (RFC 3265) NOTIFY Dialog, Line Status SUBSCRIBE Message Summary VoIP NAT Interworking DATE Header Support Remote-Party-ID (RPID) P-Asserted-Identity (PAID)

	RTP Statistics in BYE Message Media Loopback Support Remote Restart via Notify
Telephony	Configurable Contact List (Inbound Call Routing) PIN Access Control to AA (Up to 4 PINs) Recursive Digit Map for Call Routing (AA, Phone, Voice Gateways, Trunk Groups) AA Configurable Outbound Call Routing Rule SIP Service Configurable Inbound Call Routing Rule (2) Direct / Single-Stage Dialing (Route to Voice Gateway) In-Band DTMF (G.711) Out of Voice Band DTMF (RFC 2833) Out of Voice Band DTMF (INFO Method) Call Progress Tone Generation Tone Profile per SIP SP and OBiTALK service Ring Profile per SIP SP and OBiTALK service Star Code Profile per SIP SP and OBiTALK service Full Duplex Audio G.165, 168 Echo Cancelation VAD – Voice Activity Detection Silence Suppression Comfort Noise Generation Five Way Conference Calling with Local Mixing Caller ID – Name & Number and Photo MWI – Message Waiting Indicator Visual Message Waiting Indication (VMWI) Daylight Savings Time Support – North & South Hemispheres Caller ID Enable /Disable Caller ID Number Caller ID Name (Alphanumeric) Caller ID Spoofing Call Waiting Maximum Session Control Call Forward - Unconditional Call Forward on Busy Call Forward on No Answer (Ring Count Configurable) Call Transfer Enable / Disable Anonymous Call Block Anonymous Call Do Not Disturb Call Return Repeat Dialing Barge Call Forward Notification Advice of Charge Call Center Agent Logon / Logoff / Available / Unavailable from Phone Corporate directory Extension mobility Forced Access Codes / Client Matter Codes Immediate divert Meet-me Conference Personal Directory Dialing Before Sending Ring Tone per Service Recording Uniform Resource Locator (URI) dialing Voice mail
Call Progress Tones	Configurable Call Progress Tone Call Progress Tone Profiles (2) Paging Tone Dial Tone Busy Tone Ringback Tone Reorder Tone Confirmation Tone Holding Tone Second Dial Tone Stutter Tone Howling Tone Prompt Tone Call Forwarded Tone Conference Tone R-Command Tone SIT Tones (1-4) Ringing & Call Waiting Tone Configuration Ring Patterns (10) - Configurable Call Waiting Tone Patterns (10) - Configurable Call Waiting Tone Pattern Profiles (2)

Star Code Configuration	Configurable Star Codes Star Code Profiles (2) Redial Call Return Activate Block Caller ID Deactivate Block Caller ID Block Caller ID Once Unblock Caller ID Once Activate Call Forwarding (All Calls) Deactivate Call Forwarding (All Calls) Activate Call Forward on Busy Deactivate Call Forward on Busy Activate Call Forward on No Answer Deactivate Call Forward on No Answer Activate Block Anonymous Calls Deactivate Block Anonymous Calls Activate Call Waiting Deactivate Call Waiting Activate Do Not Disturb Deactivate Do Not Disturb Activate Repeat Dial Deactivate Repeat Dial Use G.711 Only on the Next Outbound Call Use G.711 Only on the Next Outbound Call Called OBi will Loopback Media Called OBi Will Loopback RTP Packets

User Preferences

Display Skin / Theme	Three Choices + Custom
Background Picture	Choose or Upload
Font	Choose or Upload
Screen Saver	Enable / Disable
Screen Saver Delay	Seconds
Screen Saver Type	Slide Show, Turn Off Display
Slide Show Interval	In Seconds
Adjustable Display Brightness	Seven (7) Levels
Default Ringtone	Choose from Defaults or Upload Custom
Preferred Audio Device	Speaker, Headset
Preferred Headset Device	RJ9, 3.5mm, Bluetooth
Adjustable Ringer Volume	18 Levels - Including Off
Adjustable Volume Settings (Independent per Audio Interface)	16 Levels - Including Off for Speaker, Handset, Headset (RJ9, 3.5mm, BT)
Adjustable Gain Settings (Independent per Audio Interface)	0 - 7 dB for Speaker, Handset, Headset (RJ9, 3.5mm, BT)
Equalizer Enable	Enable / Disable
Acoustic Echo Cancelation	Off / On / Linear

Interfaces & Indicator Lights

USB2.0 Ports	2 For Use with OBi Accessories, Local Storage and Charging Mobile Phones
WAN-Internet / LAN – OBi1062	2 x 10/100/1000BaseT Gigabit Ethernet Port (802.3)
WAN-Internet / LAN – OBi1032	2 x 10/100BaseT Fast Ethernet Port (802.3)
Headset	RJ9 and 3.5 mm w/ Backlit Indication Lamp on Headset Button
Handset	RJ9 – Located on Rear of Case
Illuminated Keys – Tri-Color	14 – 6 Line Appearance / Call Keys and 8 Programmable Feature Keys
Dedicated Keys with Back Light Illumination	3 – Mute, Speaker, Headset

Certifications

FCC Part 15	Yes – Class B
A-Tick	Future
CE MArk	Yes
ICES-003	Yes – Class B
RoHS	Yes
WEEE	Yes
EN 60950-1	Yes
UL/ULc	Yes – On optional Power Adapter

Environmental

Operating Temperature	0º to 45º C (32º to 113º F)
Storage Temperature	-25º to 85º C (-13º to 185º F)
Operating Humidity	10% to 90% Non-condensing
Non-operating Humidity	10% to 90% Non-condensing

Physical Attributes

Dimensions:	21 cm x 21 cm x 17 cm / 8 in x 8 in x 6.5 in
Unit Weight:	1 kg / 2.2 lbs.
Shipping Weight	1.2 kg / 2.7 lbs. (Including Ethernet Cable and Packaging)
Body Material	ABS Textured Plastic (Class A)

Power over Ethernet (PoE)

Type	IEEE Power over Ethernet (PoE) 802.3af
Link Layer Discovery Protocol	Power over Ethernet (LLDP-PoE)
PoE Power Class	Class 2 – Energy Saving Low Power

Power Supply – *Optional – Not Included with Telephone – Required if Phone will Be Operated Using WiFi*

Type	Universal Switching with Region Dependent Plug
Input Power	AC Input: 100 to 240 Volts 1.5A 50-60Hz (26-34 VA)
Output Power	DC: +12V 1.0 Amp Max

Carton Specifications

Units Per Carton	5 Units
Carton Dimensions	46 cm x 27 cm x 38 cm – 18 in x 10.5 in x 15 in
Carton Weight	6.8 Kilograms / 15 pounds

Miscellaneous

Requirements	Active Internet / IP Network Connection Access to Internet Via a Switched Ethernet Port or Router (Optional) Active Internet Phone Service Subscription with All Required SIP Credentials to Make & Receive Calls or IP PBX Extension Assignment
Documentation	Quick Start / Installation Guide User / Administrative Guide Implementation Guide for Service Providers **
Package Contents	OBi1000 Series IP Phone Phone Handset 1 x RJ9 Phone Handset Cable 1 x RJ45 Ethernet Cable (80 in / 203 cm) Quick Start / Installation Guide
Warranty	1-Year Hardware (Limited)
Engineering & Design Location	California, USA
HST Code	8517.62.00
Data Sheet State	All content subject to change. This data sheet is not a warranty.
Data Sheet Version	140717.1000.3

* OBi1062 Professional Model
** For Service Providers Only
∞ Future Support Planned