Advanced VoIP Gateway

ODC-202 Series

Protocol: SIP (RFC3261)

Model: OD-202N、OD-202AC、ODC-202N、ODC-202AC

Ethernet: 1WAN 4LAN, 1ComboWAN 4LAN

Telephony Interface: RJ-11 connectors

GENERAL FEATURES AND SPECIFICATIONS

Voice Features

- G.722, G.711a/μ-law, G.729A/B, G.726, G.723.1, GSM 6.10 Full Rate, iLBC 13.3kbps
- DTMF Detection and Generation
- Silence Suppression & Detection
- Comfort Noise Generation (CNG)
- Voice Activity Detection (VAD)
- Echo Cancellation (G.165)
- Adaptive (Dynamic) Jitter Buffer
- Call progress tone generation (FXS)
- Auto or Programmable Gain Control
- Inbuilt Local Mixer
- ITU-T V.152 Voice-band Data over IP Networks

SIP Method Support

ACK, BYE, CANCEL, INFO, INVITE, MESSAGE, NOTIFY, OPTIONS, PING, PRACK, PUBLISH, REFER, REGISTER, SUBSCRIBE, UPDATE

SIP Call Features

- Peer to Peer Call
- Call Hold/ Retrieve
- Call Waiting
- Call Pick Up
- Call Park/ Retrieve (SIP Server Required)
- Call Forward - unconditional, busy, no answer
- Call Transfer - attended, unattended
- Do Not Disturb
- Speed Dialing
- Repeat Dialing
- Three-way Calling
- MWI (RFC-3842)
- Hot Line and Warm Line

Telephony Specifications

- In-Band DTMF, Out-of-Band DTMF Relay (RFC2833 or SIP INFO)
- DTMF/ PULSE Dial Support
- Caller ID Generation/ Detection:
    - DTMF
    - FSK-Bellcore Type 1 & 2
    - FSK-ETSI Type 1 & 2
    - FSK-NTT
    - FSK: Calling Name, Number, Date and Time, VMWI
- FXS metering pulse:
    - 12kHz calling tone
    - 16kHz calling tone
- Polarity Reverse Generation (FXS)
- T.30 FAX bypass, T.38 Real-Time FAX Relay
- FXS Line test and diagnostics with visual alarm indication
    - Inward Self-test:
        - Loopback – codec
        - Loopback – analogue
        - SLIC DC power voltage
        - Tip/ Ring DC feed
        - Ringer
    - Outward Test (GR909 Standard):
        - REN
        - Phone Line disconnected
        - H.F. DC Voltage (Hazardous and foreign DC Voltage)
        - H.F. AC Voltage (Hazardous and foreign AC Voltage)
        - Tip/ Ring Short
- ROH Tone (Receiver Off-Hook Tone @ 480Hz)
- Loop Current Suppression

SIP Account Management

- By port registration
- By device registration (share account)
- Mixed mode (Hunt number for inbound, by port number for outbound)
- Invite with Challenge
- Register by SIP Server IP Address or Domain Name
- Support RFC3986 SIP URI format

SIP Call Management

- Support Outbound Proxy
- SIP Registration Failover Mechanism
- Group Hunting
- Privacy Mechanism/ Private Extension to SIP
- Session Timers (Update/ Re-invite)
- DNS SRV Support
- Call Types: Voice/ Modem/ FAX
- User Programmable Dial Plan Support
- Automatic Calling Number Manipulation
- CDR Client
- Manual Peer Table (for P2P calls)
- E.164 Numbering, ENUM support

Physical Interface

- Combo WAN: Gigabit Ethernet copper and fiber (SFP)
- LAN: 4-port RJ-45 10/100/1000M Ethernet (GE)
- Antenna: 2T2R, 2 x 2dbi external antenna
- Telephone: 2-port FXS, 1 Lifeline or PSTN port
- Factory default reset button, WPS push button, Power jack, Power switch
- USB 2.0 Host interface

LED Indicators

Power, Provision/ Alarm, Register, WAN, WLAN (2.4G/ 5G), LAN1~4, USB1~2, Phone1~2 (Off-hook/ Channel Alarm), WPS

Advanced VoIP Gateway

Ordering Information

Model	Description			
	WAN	**LAN**	**Wi-Fi**	**FXS**
ODC-202AC	Combo	4xGE	802.11a/b/g/n/ac	2
ODC-202N	Combo	4xGE	802.11a/b/g/n	2
OD-202AC	GE	4xGE	802.11a/b/g/n/ac	2
OD-202N	GE	4xGE	802.11a/b/g/n/ac	2

General Information

Dimensions: W22.6cm x D15.5cm x H3.3cm
Weight: 400g
Power Source: AC 100~240V 50/60Hz input, DC 12V/2A output
Operating temperature: 0°C ~ 45 °C
Storage temperature: -25°C ~ 75 °C
Operating Humidity: Up to 90% RH, non-condensing

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   entities claiming the marks and names or their products.

✴ Specifications, availability and terms of offers may change without notice.

NETWORK FEATURES AND MANAGEMENT

Wireless
- Compliant with IEEE 802.11b/g/n/ac standards
- 2.4 GHz/5 GHz dual-band concurrent
- Auto rate adaptive
- Multi-SSID
- Broadcast SSID control
- 64 / 128/152 bits WEP supported for encryption
- Wireless Security with WPA-PSK / WPA2-PSK
- WDS repeater function
- Universal repeater mode
- IAPP (802.11f)
- Wi-Fi Multi-Media (WMM) for AP mode
- WPS (Wi-Fi Protected Setup) for easy setup

IP Network Specifications
- WAN: Static IP, PPPoE, DHCP
- NAT Functions
    Support up to 255 clients
    Port Forwarding (Virtual Servers)
    DMZ
    Port Triggering
- Support IPv4, IPv6 future upgradeable
- QoS Support:
- DDNS Support

Network Security Specifications
- VPN PPTP and L2TP Client
- DIGEST Authentication
- MD5 Encryption
- DoS Protection

Management
- Web Based Configuration
- Auto-provisioning (HTTP/ HTTPS)
- Telnet
- IVR
- FTP/ TFTP/ HTTP Software Upgrade
- Configuration Backup and Restore
- Reset to Default Button
- TR-069, TR104 (option)
- SNMP V3/ V2c /V1

Firewall
- Stateful packet inspection (SPI)
- Port filter
- IP filter
- MAC filter
- URL filter

FC CE