



OM500

OM500 IP-PBX provides versatile solutions containing voice/video call, voice message broadcast, Fax, call recording, mobile extensions, to improve work efficiency and service quality of a large-scale enterprise.

The OM500 supports up to 1000 extensions, and the capable of multi-site networking enable the extensions can be expanded to thousands, to meet the requirement of either a single site or multi-site deployment.

## High Integration and Expansibility

The OM500 is designed as a compact unit with 1U height and it is applicable to a 19 inch rack. It integrates SIP soft switch, voice codec, media processing. The OM500 analog extensions can be expanded by connecting MX gateways.

## High Reliability

The OM500 provides high availability features including 1+1 redundancy of Gigabit-Ethernet ports and AC/DC power supplies (optional).

In addition, with high availability featuring primary-standby, active-standby, as well as PSTN failover to handle the failure of the SIP proxy servers, power supply, and network, users are provided with carrier-class availability with minimized potential downtime.

## Easy Remote Management

Embedded with New Rock Cloud client, the device located behind enterprise NAT or firewall can be easily accessed for maintenance and troubleshooting or by far-end applications. Real-time monitoring, alarm notification, remote-packet capture and software upgrading can be performed with New Rock Unified Management System or third-party Element Management Systems connecting over TR-069 or SNMP protocols.

## Multi-Site Networking, Unified Management

The peer-to-peer communication allows the OM500 to be easily accessed by remote OM IP-PBX, MX gateways, IP phones, mobile extensions, so all extensions of headquarters and branches call each other for free and all trunks can be shared. The unified management of call recordings and call histories is achieved too.

\* The feature will be available in the future.

Max. IP extensions	1000
Max. IP trunks	1000
Max. concurrent calls	200 without recording 140 with recording
H×W×D (1U)	44×440×300 mm

## Features

- Connected to IMS Networks via ONU
- Peer-to-peer communication between OM IP-PBX and SIP terminals across NAT without the need for static IP addresses, DDNS or port mapping on the access router
- Headquarters and branch-office communications through SIP-based tie trunks
- Mobile extensions keep you connected anywhere, at any time on any network
- Plug-and-play for New Rock IP phones
- XML/HTTP-based RESTful API for third-party applications
- Remote access via the New Rock Cloud
- Management with New Rock Unified Management System or third-party Equipment Management Systems (TR-069, SNMP)
- Dual-redundant Gigabit-Ethernet ports
- Dual AC/DC power supplies (optional)
- Class I lightning protection

## Specification

### Protocols

<b>Call control</b>	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP)
<b>Network</b>	Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, DNS(A/SRV record), STUN

### Media Processing

<b>Codec</b>	G.711 (a/μ), G.729a
<b>DTMF</b>	In-band audio, RFC2833, SIP-INFO
<b>Hook-flash</b>	Local processing, RFC2833, SIP-INFO
<b>Fax over IP</b>	T.38, G.711 pass-through T.38 compliant Group 3 Fax Relay Maximum fax rate of 33,600 bps (pass-through)
<b>Voice-quality enhancement</b>	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

### Voice

<b>Smart auto attendant/ Receptionist</b>	Business/non-business hours/holiday, Music on hold, Attendant group, Multilingual/multi-level IVR, Auto attendant profiles, VIP service
<b>Dialing</b>	Speed dial, Outgoing route selection, Least cost routing, Automatic route selection
<b>Call settings</b>	Call transfer, Call forward, Do not disturb, Barge, Silent monitoring, Simplified DISA etc.
<b>Call recording</b>	Through New Rock pbxrecord Software
<b>Voicemail</b>	MWI (polarity reversed, FSK, high voltage)
<b>SIP trunk</b>	IMS, Multiple SIP servers, Skype Connect
<b>Phone status indication</b>	Status subscription (BLF)

### Security

<b>User-defined ports</b>	SIP port, RTP port, HTTP/HTTPS port to access the Web GUI
<b>Access list</b>	IP addresses allowed to access HTTP/HTTPS / Telnet/SSH service, IP address filtering of SIP
<b>IP phone protection</b>	Prohibition on outgoing dialing by IP extensions on public network, User-Agent authentication, Registration password cracking protection
<b>Web GUI login protection</b>	Prohibition on login from public IP address, Login password cracking protection
<b>Encryption</b>	Encrypted password/PIN
<b>Security level</b>	Three levels of security settings

### Provisioning, Administration and Maintenance

<b>Device management</b>	New Rock Unified Management System, TR-069 management (TR-069, TR-104, and TR-106), SNMP
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<b>Remote access over TCP</b>	New Rock Cloud
<b>Auto provisioning</b>	Download configuration file via TFTP/FTP/HTTP/HTTPS, Obtaining ACS address via DHCP option 66 or redirection
<b>Log</b>	8-level log management, Syslog
<b>Data capture</b>	Port capture, Packet capture
<b>Configuration</b>	Bulk import/export. Resetting to the factory default
<b>Status and statistic</b>	Call status and history, Device status monitoring and statistics collection
<b>Status monitoring/ alarming</b>	Status/performance monitoring or reporting. Status/performance alarms

### Other

<b>Multi-site voice</b>	Support NAT traversal, Uniform dial plan, Call forward, Call transfer. Outbound trunk sharing, Three-way calling, Attendant on remote site
<b>QoS</b>	DiffServ, TOS, 802.1p/Q VLAN tagging
<b>Media available for storing in internal storage</b>	Local recording, Voicemail, Customer information, User-uploaded IVR file

## Hardware

Network Interface	4×10/100/1000 Mbps RJ45 ports
SD	16GB
CPU	TI AM3352
RAM	256 MB
Flash	32 MB
Net weight	3 kg maximum
Single/Dual AC power supplies	100 to 240 VAC, 50/60 Hz, 1A maximum
Power consumption	18 W
Mounting	Rack
Operating	Temperature: 0 to 50°C, Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 70°C, Humidity: 5 to 90% RH (non-condensing)