
Wireless Office Communication System

WROC2002 WROC2011

16 SIP clients, Integrated Wi-Fi LAN, 3G/4G/LTE WAN access, router, and full-featured IP phone system for small business

- Surf the Internet
- In-house Wi-Fi LAN
- 3G/4G/LTE wireless WAN access or failover
- Voice and video communications
- 3-way voice conferencing
- Mobile extensions with Wi-Fi smartphone
- USB for sharing files and feature expansion
- REST API for customization and Web services access

Highlights

The WROC is one system with all the communication functions you need to help grow your business on a budget. It creates an office network with high-speed wired and wireless data connections, as well as support for legacy telephone lines. The WROC2000 supports traditional business-phone system features, such as voicemail, transfer, conference, hold, hunt groups, and automated attendant. The WROC2000 is compatible with SIP-based next-generation voice terminals, including smartphone, tablets, and softphones. And, being wireless, it significantly reduces the cost and maintenance of office wiring.

Features

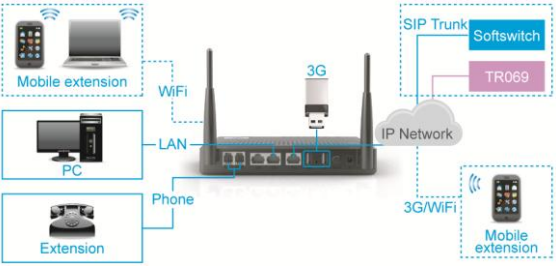


- Dual USB2.0s for 3G/4G/LTE dongle, supporting WCDMA and CDMA2000
- 801.11b/g/n with double antenna
- QoS scheme providing high priority to voice stream
- Built-in SIP proxy and supports 10 SIP clients
- SIP-trunk connection to IMS and NGN
- Two analog ports to phone/fax machine or PSTN

Product models

WROC2002: provides two legacy phone ports

WROC2011: provides one phone port and one line port

Applications

Scenario	Description
 <p>The diagram shows a central router with multiple antennas. On the left, a 'Mobile extension' (phone and laptop) is connected via 'WiFi'. A 'PC' is connected via 'LAN'. A 'Phone' is connected via 'Phone'. On the right, the router is connected to an 'IP Network' cloud, which is linked to a 'Softswitch' and 'SIP Trunk' (TR069). A '3G/WiFi' mobile extension is also shown connected to the router.</p>	<p>Carrier</p> <p>Provides internet and voice service via 3G or Ethernet</p> <p>Supports mobile extension</p> <p>The integration of WiFi/3G router and telephone system helps to reduce deployment and maintenance cost</p> <p>Supports IMS/NGN compatible SIP as well as TR069 for centralized management</p> <p>Provides new service through firmware upgrade</p>
 <p>The diagram shows a central router with multiple antennas. On the left, a 'Mobile extension' (phone and laptop) is connected via 'WiFi'. An 'Extension' and 'Fax' are connected via 'Phone'. On the right, an 'IP Phone' is connected via 'LAN'. The router is also connected to an 'Internet' cloud, a 'PSTN' network, and a '3G/WiFi' mobile extension.</p>	<p>SOHO</p> <p>Provides wireless data and voice communication</p> <p>Smartphone with extension number to enhance the contacts with customers</p> <p>VLAN and QoS to ensure the quality of voice communications</p> <p>Rich set of traditional telephone features, including voice conference, recording and voicemail</p>
 <p>The diagram shows a central router with multiple antennas. On the left, a 'TV' and 'Notebook computer' are connected via 'WiFi'. A 'Phone' is connected via 'Phone'. On the right, an 'IP Phone' is connected via 'WiFi'. The router is also connected to an 'Internet' cloud and a 'PSTN' network.</p>	<p>Family</p> <p>Build family digital network via WLAN</p> <p>Free phone communications via internet</p> <p>Designated phone for each family member</p> <p>Highly intuitive and easy to use</p>

Technical Specifications

Name	Description
Basic	
Stations	16
Auto Attendant	IVR with time schedule, Queuing Operator handling Soft console for call monitoring and click to transfer
Incoming Call	DID Caller ID Call rejection Call waiting Forking (direct a call to dual terminals) Call forwarding Do not disturb Distinctive ring patterns CRBT
Call Pickup	Call pickup Direct call pick-up Group call pick-up
Making Call	Intercom White list Select trunk with dial prefix Speed dial Hot line (immediate and delay)
Dial-in System Access	Authentication with PIN Authentication with caller's phone number
Extension Features	Blind transfer Consultation transfer Call transfer to PSTN Call hold Park Three-way conference Recording * Recording on-fly *
Max. SIP terminals	16
SIP Trunk	IMS/NGN
Multi-site	Inter-site calling via IP network Outbound trunk sharing
Soft Pad	Click-to-call Contact list Presence Listen to recording and voice message * Call history

Name	Description
Media Stream	G.711/G.729A codec Echo cancellation Busy tone detection Fax: G.711 pass-through, T.38 Version 3 relay with V.34 *
Video Protocol	Pass-through
Basics	
Data rate	300Mbps
WiFi Standards	IEEE 802.11b/g/n, 802.3, 802.3u
3G Standards	WCDMA, CDMA2000
WiFi Baud Rate	2.4~2.4835GHz
WiFi	
Channel	1-13
Spread Spectrum	DSSS, OFDM
Modulation	BPSK, QPSK, CCK, 16-QAM, 64-QAM
Rx Sensitivity	OFDM 54M -73/-73dBm, CCK 11M -87/-87dBm, HT40 MCS7 -66/-66dBm
Tx Power	OFDM 54M 14.5/14.5dBm, CCK 11M 17/17dBm
Antenna	Dual external antenna, 3dBi
Range	Indoor 100M; outdoor 300M(open space)
Network Features	
WAN Connection Type	Static IP, DHCP, PPPoE, PPTP, L2TP, 3G, Wireless WAN
Networking Protocols	IEEE802.11b/g/n, 802.11s/e/r/l, 802.3,802.3u, 802.1d/p/q/x, CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, PPPoE, HTTP, SNTP, LLTD, SNTP client, IGMP, Telnet, UPnP, FTP
Advanced WiFi Features	Change/disable SSID broadcast, 802.1x, WDS, VPN, wireless roaming
Wireless Security	WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS (PIN and push button) , Client filtering
Management	Traffic statistics Syslog Remote Web configuration Configuration file import and export Firmware upgrade through Web
NAT	Port mapping, DMZ
Qos	WMM & WMM Power Save Bandwidth control 802.1P DSCP
Firewall	IP/MAC binding for anti ARP spoofing, IP/MAC filtering Website filtering
Power Supply	
Power Adaptor	DC 9V~12V, 1A
Power Consumption	7W

Name	Description
Authentication	
FCC	Supported
CE	Supported
Interface Type	
LAN	2 10/100M LAN, Auto MDI/MDIX
WAN	1 10/100M WAN, Auto MDI/MDIX
Voice	WROC2002: 2 phone ports WROC2011: 1 phone port and 1 x CO line port
USB	2 USB2.0 hosts for 3G dongles, storage, printer and etc
Control Button	Reset, power on/off, WLAN, WPS
Environment Requirement	
Working Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 70°C
Working Humidity	10% ~ 90%RH(Non conducting)
Storage Humidity	5% ~ 90%RH (Non conducting)
Physical Specification	
LEDs	STU, PWR, USB, WAN, LAN, PHONE/LINE, WLAN, WPS
Dimensions	182 x 136 x 30 mm
Weight	Net Weight: 300g Gross Weight: 650g

* The feature will be supported in future release.