OV504WN

Production Specifications

OVISLINK (CANADA) INC.

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Product Specifications

Introduction

The OV504WN is a high-performance wireless ADSL router, uplink rate up to 1 Mbps and downlink rate up to 24 Mbps. It provides one RJ11 telephone interface, four RJ45 Ethernet interfaces, and one USB host 2.0 interface. The telephone interface is used for connecting to the Internet provided by the telecom carrier. The Ethernet interfaces are used for connecting to the computer, through which you can access the Internet. Computers that are connected with the router through the Ethernet interfaces can establish a small local network area (LAN). Those computers can communicate with each other, sharing resources and files. The OV504WN is an ideal broadband CPE solution for both home users who wish to share high-speed Internet access and small offices that wish to do business on the Internet.

The OV504WN has Web-based graphic user interface (GUI), in which you can easily modify the settings and connect to your ISP. It also provides flow statistics, connection status, and other detailed information. It supports static IP address, dynamic IP address, and PPPoE connection. The OV504WN is easily upgraded and provides terminal users and ISP with the guarantee of future.

- Support VPN pass-through, including IPSec and multiple parallel PPTP tunnel
- Compliant with IEEE802.11b/g/n standards, high access to the Internet wirelessly

Application

- Home gateway

- Small enterprises application

- TV over IP (IPTV)

- Internet access sharing

- High rate broadband sharing

- Files and resources of LAN sharing

- Network online gaming

- USB storage

- VPN connection
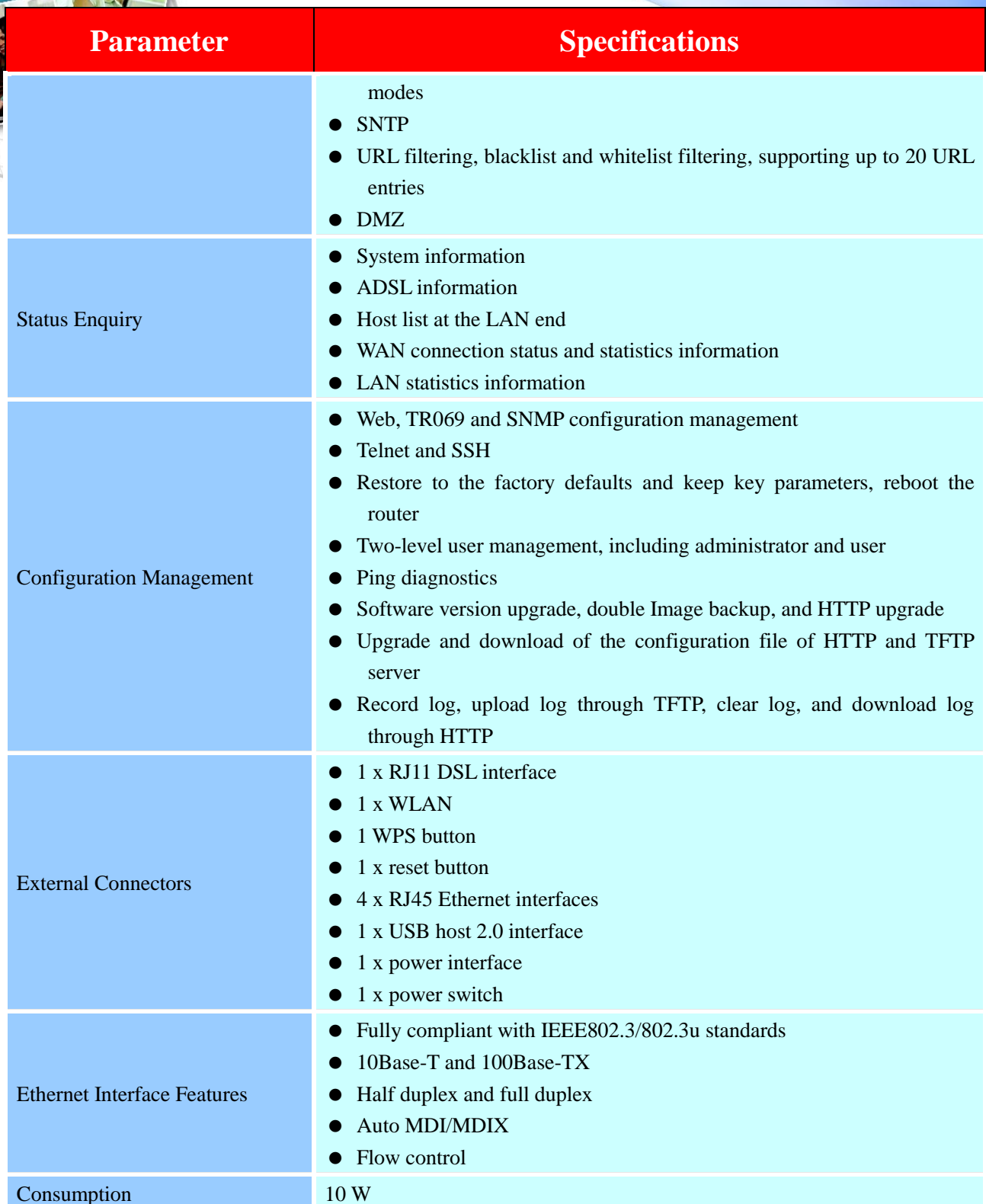
Parameters and Specifications

Parameter	Specifications
System Specifications	
Chipset	BCM63281T+BCM43227+BCM6301
DDR SDRAM	64MB DDR2
Serial Flash	8 MB/16M
Features and Technical Specifications	
Protocols	● RFC 2684 Multiprotocol Encapsulation over ATM Adaptation Layer 5 ● RFC1483 Multiprotocol Encapsulation over ATM Adaptation Layer 5 ● RFC2516 PPP over Ethernet (PPPoE) ● RFC1662 PPP in HDLC-like Framing ● RFC1332 PPP Internet Protocol Control Protocol ● RFC894 A Standard for the transmission of IP Datagrams over Ethernet Networks ● RFC1042 A Standard for the transmission of IP Datagrams over IEEE 802 Networks ● MER (IP over Ethernet over AAL5) ● PPTP, L2TP, IPSec, and SIP application layer gateway (ALG) ● Self-learning bridge (IEEE 802.1D Transparent Bridging) ● Support at least 64 learning MAC addresses ● RFC768 User Datagram Protocol (UDP) ● RFC791 Internet Protocol (IP) ● RFC792 Internet Control Message Protocol (ICMP) ● RFC793 Transmission Control Protocol (TCP) ● RFC826 An Ethernet Address Resolution Protocol (ARP) ● RFC862 Echo Protocol ● G.992.1 (T1.413) ● G.992.2 (G.dmt), G.lite ● G.992.3 (G.bis/ADS L2) ● G.992.5 (ADSL2+) ● Annex L (reach extended ADSL2) ● ATM forum UNI3.0, 3.1 and 4.0 permanent virtual circuits (PVCs) ● CBR, UBR, VBR-rt and VBR-nrt ● ITU-T i.610F4/F5 OAM ● IP routing ● IPv6

Wireless Features	Standard	IEEE802.11b/g/n
	Frequency band	● 802.11b: ISM band 2.400 GHz—2.484 GHz (according to the local regulations) ● 802.11g: ISM band 2.400 GHz—2.484

Parameter	Specifications

	GHz (according to the local regulations)
	● 802.11n draft:
	  − ISM band
	  − 2422 MHz—2452 MHz (channel BW=40 MHz)
	  − 2400 MHz—2483.5 MHz (channel BW=20 MHz)

Modulation schemes	● 802.11g: 64QAM, 16QAM, QPSK, BPSK, DSSS ● 802.11b: CCK, DQPSK, DBPSK ● HT20 and HT40: 64 QAM, 16QAM, QPSK, BPSK
Wireless data rate	● 802.11b: 11, 5.5, 2, 1 Mbps per channel, auto fallback for extended range ● 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps per channel, auto fallback for extended range ● HT20: up to 150 Mbps ● HT40: up to 300 Mbps

Operating channels	● 802.11b:
	  − 4: France
	  − 11: USA and Canada
	  − 13: Most European countries
	  − 14: Japan
	● 802.11g:
	  − 11: USA and Canada
	  − 13: Most European countries
	  − 14: Japan
	● HT20:
	  − 11: USA and Canada
	  − 13: Most European countries
	  − 14: Japan
	● HT40:
	  − 3—9: USA and Canada
	  − 3—9: Most European countries

Transmission distance	● 100m indoors coverage area ● 300m outdoors coverage area (varying depending on the actual environment)
Security	64-bit, 128-bit WEP, AES, TKIP, WPA, WPA2, 802.1x
Basic Features	● Set IP address and subnet mask at the LAN end and manage domain

Parameter	Specifications
	name ● VLAN and port binding at the LAN end ● Multi-IP address management at the LAN end ● DHCP server, Option 60/15/42/50/250, and management of multiple address pools ● DHCP Relay, compatible with RFC2131, RFC951, RFC1542 ● 10M/100M, self-adaptation, half duplex and full duplex management of the LAN port ● Up to eight WAN connections ● Static uplink, configuring of static IP address, subnet mask, DNS, and gateway ● PPPoE uplink, configuring of user name, password, MRU, PAP and CHAP authentication, disconnection upon idle overtime ● DHCP uplink, obtaining the IP address through DHCP ● Bridge uplink ● VLAN at the WAN end and 802.1q VLAN ● NAT and NAPT

Advanced Features	● ALG: TFTP/FTP/PPTP/RTSP/L2TP/H323
	● MAC address filtering in the whitelist mode
	● Virtual server (NAPT configuration page), meeting the TR098 requirements for port mapping nodes, supporting 16 entries of virtual server configuration
	● DNS agent
	● Manual configuration of DNS
	● QoS:
	  – Interface management, supporting strict-priority (SP) and DWRR scheduling modes
	  – Queue management, supporting eight priority queues
	  – Flow classification management
	● Anti-DoS, independent switch for each protection item, and anti-port-scanning switch
	● IP filtering, security level configuration, blacklist and whitelist based on WAN/LAN end (each list supporting up to 20 entries of IP filtering configuration)
	● Ping/Web/Telnet/SSH/FTP/TFTP local access control
	● Ping/Web/Telnet/SSH/FTP/TFTP remote access control
	● UPnP
	● IGMP Snooping and IGMP data control of the port
	● IGMP relay
	● Static routing management, supporting up to 16 entries of static routing configuration
	● Dynamic routing management, RIPV1, RIPV2, active and passive

Parameter	Specifications
	modes ● SNTP ● URL filtering, blacklist and whitelist filtering, supporting up to 20 URL entries ● DMZ
Status Enquiry	● System information ● ADSL information ● Host list at the LAN end ● WAN connection status and statistics information ● LAN statistics information
Configuration Management	● Web, TR069 and SNMP configuration management ● Telnet and SSH ● Restore to the factory defaults and keep key parameters, reboot the router ● Two-level user management, including administrator and user ● Ping diagnostics ● Software version upgrade, double Image backup, and HTTP upgrade ● Upgrade and download of the configuration file of HTTP and TFTP server ● Record log, upload log through TFTP, clear log, and download log through HTTP
External Connectors	● 1 x RJ11 DSL interface ● 1 x WLAN ● 1 WPS button ● 1 x reset button ● 4 x RJ45 Ethernet interfaces ● 1 x USB host 2.0 interface ● 1 x power interface ● 1 x power switch
Ethernet Interface Features	● Fully compliant with IEEE802.3/802.3u standards ● 10Base-T and 100Base-TX ● Half duplex and full duplex ● Auto MDI/MDIX ● Flow control
Consumption	10 W

Parameters and Specifications

Parameter	Specifications
Environment Requirement	
Operating Temperature	0℃—40℃
Storage Temperature	-20℃—70℃
Operating Humidity	10%—95%, non-condensing
Storage Humidity	5%—95%, non-condensing
Power Supply	12 V DC, 1A
EMC and Safety	
Regulation Compliance	● FCC ● CE ● CCC Class B
Safety Regulations	UL
Green Standard	RoHS
Physical Characteristics	
Physical Dimension	L x W x H: 153mm x 105mm x 32mm
Weight	880 g (including power adapter)