Product Datasheet

4G Industrial wireless Router

ONV-WR300-4G

OVERVIEW

ONV-WR300-4G is an industrial 4G wireless router independently developed by ONV. The main control adopts the Qualcomm 9531 chip solution, the wireless rate can reach 300M, supports 4G full Netcom, and uses the public GPRS/CDMA/WCDMA/EVDO/LTE network to provide users with wireless long-distance data transmission functions. Built-in embedded operating system, self-designed automatic reconnection function, to provide users with a safe, high-speed, stable, and reliable 4G wireless network. 4G wireless routers have been widely used in the M2M industry in the IoT industry chain, such as self-service terminals, smart grids, smart transportation, smart homes, finance, mobile POS terminals, supply chain automation, industrial automation, smart buildings, fire protection, public safety, Environmental protection, meteorology, digital medical treatment,

+86 755 33376606 **ONV**
Optical Network Video Technologies (Shenzhen) Co., Ltd.

remote sensing survey, military, space exploration, agriculture, forestry, water affairs, coal mining, petrochemical, and other fields.

FEATURE

■ **No configuration, just use the network card**

◇ Insert a 4G SIM card, turn on the power, and enjoy 4G wired/4G wireless high-speed Internet access.

◇ It uses 4G full Netcom modules, compatible with China Mobile, China Unicom, and telecommunications, and users can choose freely.

■ **Industrial grade design, stable and reliable**

◇ Low power consumption, No fan design, aluminum alloy shell, excellent heat dissipation, to ensure stable operation of the product.

◇ It uses a high-frequency 650MHz Qualcomm chipset to carry large-capacity loads and processing speeds and can operate stably in an environment of -40°C~+75°C.
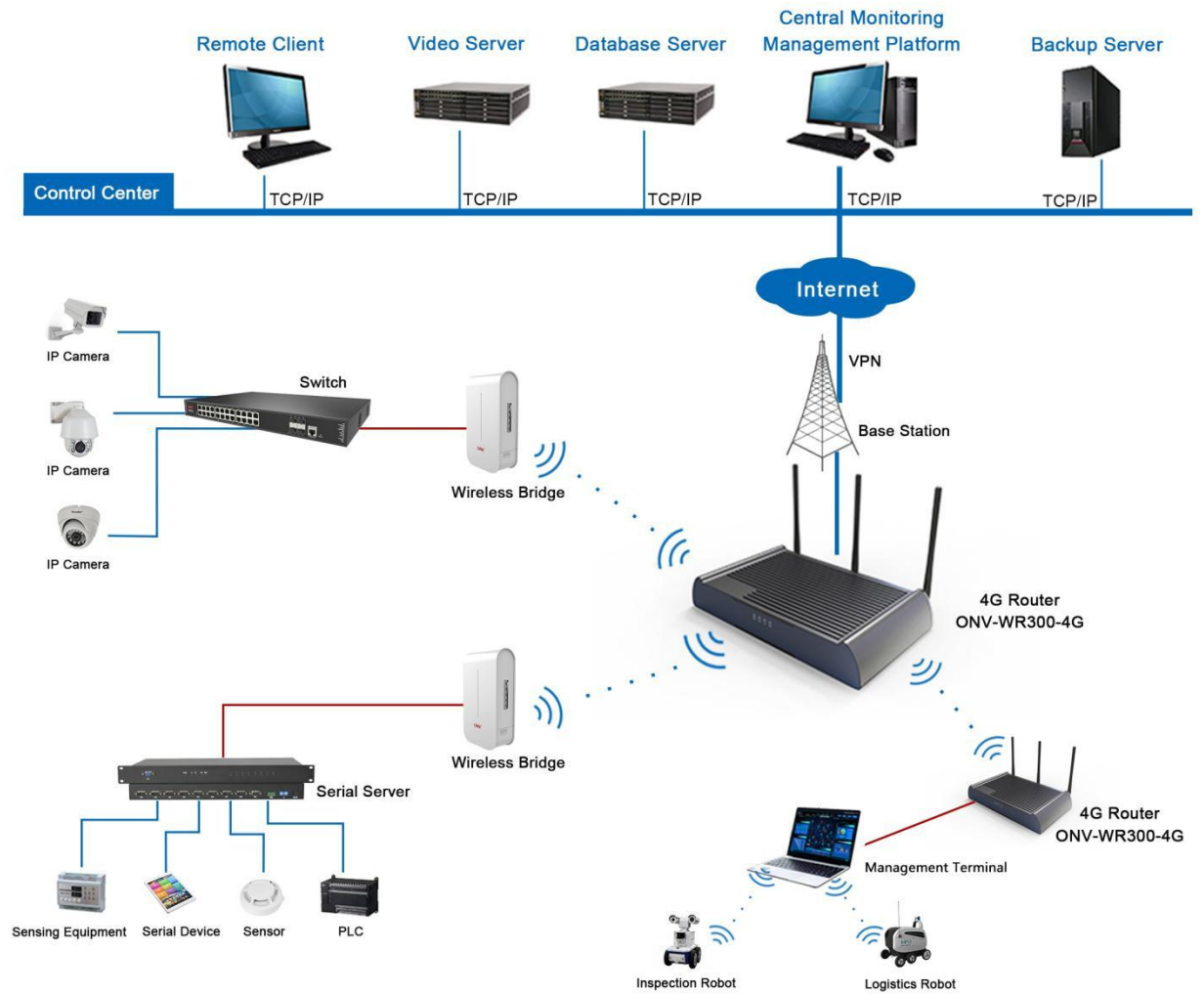
■ **Innovative design, powerful function**

◇ Support DC9-24V input, which can be better compatible with industrial access, eliminating the trouble of on-site construction.

◇ Equipped with 3 high-gain external omnidirectional antennas, the WIFI downlink peak rate can reach 300Mbps, allowing you to have a stronger signal and faster Internet access.

◇ It adopts the dual design of hardware watchdog and software multi-level link detection mechanism, with automatic fault detection and automatic recovery capabilities to ensure stable and reliable operation of the equipment.

◇ Original network link detection, 4G network is unstable, and 4G disconnection can be automatically re-dull quickly. Adaptive 4G/3G/2G network intelligent switching to ensure reliable transmission without dropping the line.
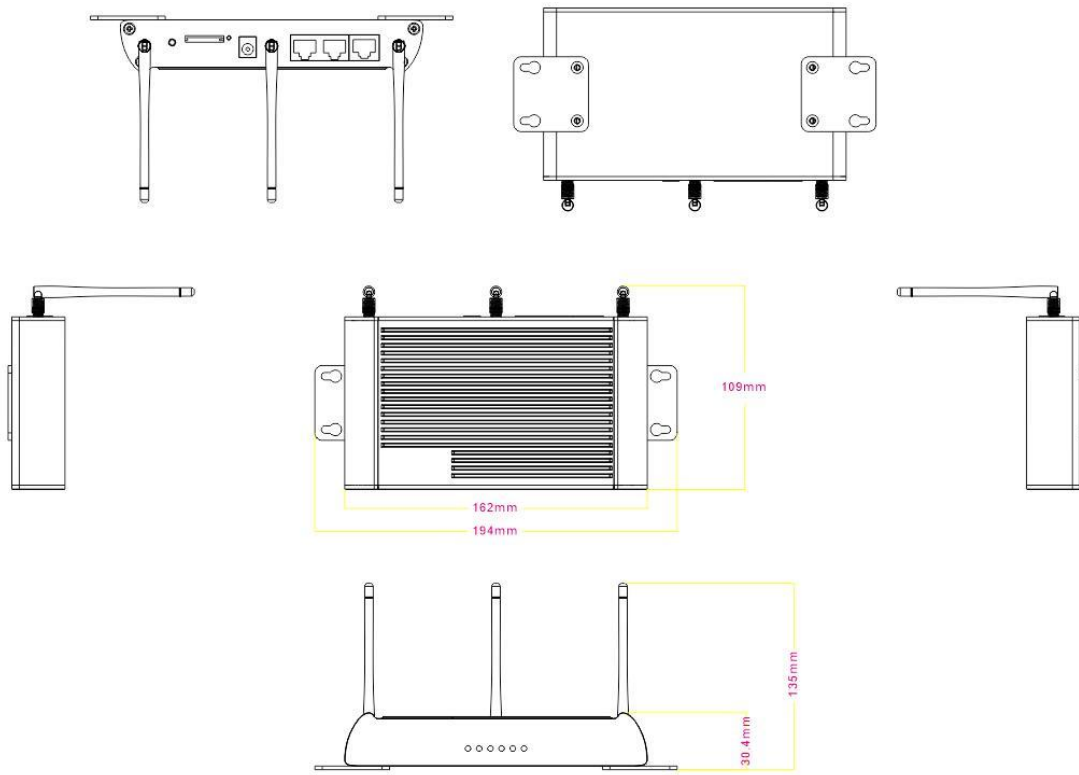
TECHNICAL SPECIFICATION

Model	ONV-WR300-4G
Interface Characteristics	
Fixed Port	1*10/100M WAN port (Data) 2*10/100M LAN ports(Data)
SIM Card Slot	1
Ethernet Port	10/100Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter)
Network Protocol and Indicator	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u100Base-TX, IEEE802.3x
Wireless protocol	IEEE802.11b, IEEE802.11g, IEEE802.11n
Chip	QCA9531
DDR2 Memory	128Mbyte
Flash	16Mbyte
Reset Switch	Yes, Press for 10 seconds and release to restore factory settings
LED Indicator	Power: PWR (green), Network: WAN, LAN (green), 4G connection: 4G (green), Wireless: WIFI (green)
Wireless Parameters	
Antenna	2.4G 2 pcs, 4G antenna 1 pc External omnidirectional antenna: 2.4G 3dBi, 4G 3dBi
Transmission Rate	11b:11Mbps, 11g: 54Mbps, 11n:300Mbps
Modulation	VHT OFDM/OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK
RF Frequency Range	China: 2.412 GHz~2.472 GHz (signal channel 1~signal channel13)
Modulation Mode	OFDM=BPSK,QPSK, 16-QAM, 64-QAM DSSS=DBPSK, DQPSK, CCK

	802.11b 11Mbps	22 ±1.5dBm
Transmit Power	802.11g 54Mbps	20 ±1.5dBm
	802.11n HT40 MS7	20 ±1.5dBm
	802.11b 11Mbps	-87dBM
Receiving Sensitivity	802.11g 54Mbps	-74dBM
	802.11n HT40 MS7	-70dBM

Power Supply	
Power Consumption	Standby<3W,Full Load≤8W
Power Supply	DC12V 1A power adapter.

Physical Parameter	
Operation TEMP / Humidity	-40~+75°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+80°C;5%~95% RH Non condensing
Dimension (L*W*H)	162*109*30.5mm
Net /Gross Weight	<0.4kg / <0.65kg
Installation	Desktop, Wall-mounted

Certification & Warranty	
Lightning protection / protection level	Port lightning protection: 46KV 8/20us Protection level: IP40
Certification	CE mark, commercial,CE/LVD EN60950, FCC Part 15 Class B, RoHS
Warranty	3 years, lifelong maintenance.

APPLICATION

DIMENSION

109mm

162mm

194mm

135mm

30.4mm

ORDERING INFORMATION

Model	Description
ONV-WR300-4G	2.4G/300Mbps industrial 4G WIFI router with 1*10/100M WAN port and 2*10/100M LAN ports, supporting DC9V-24V input.

+86 755 33376606 ONV
Optical Network Video Technologies (Shenzhen) Co., Ltd.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	Industrial 4G wireless router	1	SET
	DC12V power adapter	1	PC
	Hanging ears	1	Pair
	User Guide	1	PC
	Warranty Card	1	PC

CONTACT US

ONV **Optical Network Video Technologies (Shenzhen) Co., Ltd.**

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email: onv@onv.com.cn

Website: www.onvcom.com

Zip: 518000

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen, China

Factory Address:The 4-6th Floor, No. 59, HuaNing Road, Xinwei Community, Dalang Street, Longhua District, Shenzhen, China

+86 755 33376606 **ONV**
Optical Network Video Technologies (Shenzhen) Co., Ltd.