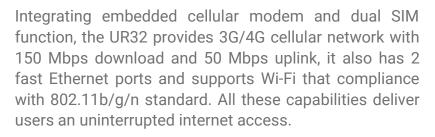


Industrial Router Pro Series UR32





Easy deployment and comprehensive remote device management makes UR32 versatile in most of IoT/M2M applications.



Benefits

- NXP industrial grade processor
- Global 4G LTE CAT4/3G network with dual SIM cards for backup between multiple carrier networks
- Embedded Python SDK for secondary development
- Flexible modular design provides users with different connection modules like Ethernet, I/O, serial port, Wi-Fi, GPS for connecting diverse field assets
- Rugged enclosure, optimized for DIN rail or shelf mounting
- 3-year warranty included

Security & Reliability

- Automated failover/failback between
 Ethernet, Cellular (dual SIM) and Wi-Fi
- Secure transmission with VPN tunnels like IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- Embeds hardware watchdog to automatically recover from various failures, ensure highest level of availability
- Establishes a secured mechanism on centr alized authentication and authorization of device access by supporting AAA (Radius, TACACS+, LDAP, local Authentication) and multiple levels of user authority

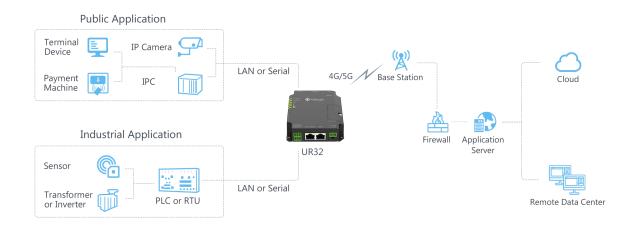
Capabilities

- Link remote devices in an environment where communication technologies are constantly changing
- Support 802.11 a/b/g/n, as AP or client mode, to establish versatile wireless network or be the backup WAN link for 4G/3G
- Support rich protocols like SNMP, Modbus bridging, RIP, OSPF
- Support wide operating temperature ranging from -40°C to +70°C/-40°F to +158°F

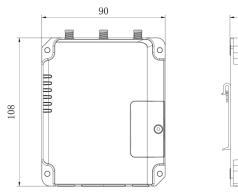
Easy Maintenance

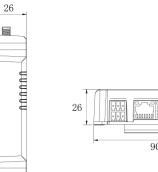
- DeviceHub provides easy setup, mass configuration, and centralized management of remote devices
- The user-friendly web interface design and more than one option of upgrade help administrator to manage the device as easy as pie
- WEB GUI and CLI enable the admin to achieve simple management and quick configuration among a large quantity of devices
- Efficiently manage the remote routers on the existing platform through the industrial standard SNMP

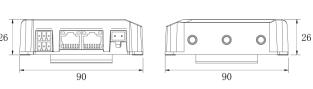
Application Example



Dimensions(mm)







Specifications

Hardware System	
CPU	ARM Cortex-A7, 528 MHz
Memory	128 MB DDR3 RAM and 128MB Flash
Extendable Storage	1 × Micro SD
Cellular Interface	
Antenna Connector	$2 \times 50 \ \Omega$ SMA Connectors (Center PIN: SMA Female)
SIM Slots	2 (Mini SIM-2FF)
Ethernet Interface	
Numbers	2 × 10/100 Mbps
Property	1 × WAN + 1 × LAN or 2 × LAN
Mode	Full or half duplex (Auto-Sensing)
PoE	2 × 802.3 af/at PoE PSE on LAN Ports (Optional)

Wi-Fi Interface (Optional)

WI-FI Internace (Op	
Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: RP-SMA Female)
Standards	IEEE 802.11 b/g/n, 2.4GHz
	802.11b: 16 dBm +/-1.5 dBm (11 Mbps)
Tx Power	802.11g: 14 dBm +/-1.5 dBm (54 Mbps)
	802.11n: 13 dBm +/-1.5 dBm (65 Mbps, HT20/40 MCS7)
Modes	AP or Client mode
Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption
GPS (Optional)	
Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
Protocol	NMEA0183, PMTK
Serial Interface	
Numbers	1 × RS232 (RS485 Optional)
Connector	3.5mm Terminal Block
Baud Rate	300bps to 230400bps
DI/DO	
Numbers	1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolation
Connector	3.5mm Terminal Block
Maximum V/A	0.3A@30VDC (DO)
Others	
Reset Button	1 × RESET
LED Indicators	1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strength
Built-in	Watchdog, Timer
Software	
Network Protocols	IPv4/IPv6, PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2,
	OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN,
	SSH, etc.
VPN	DMVPN, IPsec, OpenVPN, PPTP, L2TP, GRE
Security	Access Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls,
	DoS&DDoS Protection, Filtering(IP&Domain), IP Passthrough
Management	Web, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DeviceHub
AAA	Radius, Tacacs+, LDAP, Local Authentication
Multilevel Authority	Multiple Levels of User Authority
Reliability	VRRP, WAN Failover, Dual SIM Backup
Serial Port	Transparent(TCP Client/Server, UDP), Modbus Master/Slave, Modbus

in

	Gateway (Modbus RTU to Modbus TCP)		
Power Supply and (Power Supply and Consumption		
Power Connector	2-pin 5.08 mm Terminal Block		
Input Voltage	9-48 VDC, with Surge-Protection and Reverse Polarity Protection		
Power Consumption	Typical 1.9 W, Max 2.4 W (In Non-PoE mode)		
Physical Characteristics			
Ingress Protection	IP30		
Housing & Weight	Metal, 271 g		
Dimension	108 x 90 x 26 mm (4.25 x 3.54 x 1.02 in)		
Installation	Desktop, Wall or DIN Rail Mounting		
Environmental			
Operating	-40°C to +70°C (-40°F to +158°F)		
Temperature	Reduced Cellular Performance Above 60°C		
Storage Temperature	-40°C to +85°C (-40°F to +185°F)		
Ethernet Isolation	1.5 kV RMS		
Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F		
Approvals			
Regulatory	CE, FCC, RCM, NBTC, SPDDI		
Carrier	PTCRB, AT&T		
Environmental	RoHS		
EMC	EN 55032, EN 55035		
	IEC 61000-4-2 Level 3		
	IEC 61000-4-3 Level 2		
	IEC 61000-4-4 Level 2		
EMS	IEC 61000-4-5 Level 2		
	IEC 61000-4-6 Level 3		
	IEC 61000-4-8 Level 1		
	IEC 61000-4-11 Level 3		
Radio Frequency	EN 301 489-1/17/19/52, EN 301 511, EN 301 908-1/2/13, EN 303 413,		
	EN300 328		
Safety	EN62368-1		

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