

UR32 Industrial Router



UR32 is a cost-effective industrial cellular router with embedded intelligent software features that are designed for multifarious M2M/IoT applications. Global WCDMA and 4G LTE carrier supported make this drop-in connectivity a great help for operators in maximizing uptime.

Integrating embedded cellular modem and dual SIM function, the UR32 provides 3G/4G cellular network with 150 Mbps download and 50 Mbps uplink, it also has 2 fast Ethernet ports and supports Wi-Fi that compliance with 802.11b/g/n standard. All these capabilities deliver users an uninterrupted internet access.

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

Benefits

- NXP industrial grade processor
- Global 4G LTE/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
- Enable unit with security frameworks like IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- Embed hardware watchdog, able to automatically recover from various failure, ensure highest level of availability
- To establish a secured mechanism on cent ralized authentication and authorization of device access by supporting AAA (Radius, TACACS+, LDAP, local Authentication) and multiple levels of user authority

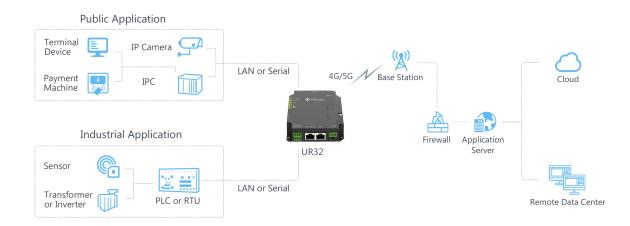
Capabilities

- 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

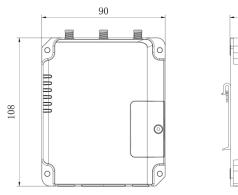
Easy Maintenance

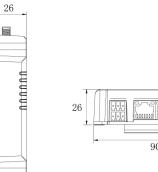
- DeviceHub provides easy setup, mass configuration, and centralized management of remote devices
- The user-friendly web interface design and more than one option of upgrade help administrator to manage the device as easy as pie
- WEB GUI and CLI enable the admin to achieve simple management and quick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

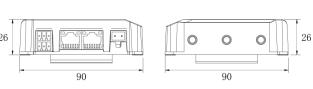
Application Example



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)

Antenna Connector1 × 50 0 SMA Connector (Center PIN: RP-SMA Female)StandardsIEEE 802.11 b/g/n, 2.4GHzR02.11b: 16 dBm +/-1.5 dBm (11 Mbps)Tx Power802.11g: 14 dBm +/-1.5 dBm (54 Mbps) 802.11n: 13 dBm +/-1.5 dBm (65 Mbps, HT20/40 MCS7)ModesAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryption GPS (Optional) -Antenna Connector1 × 50 0 SMA Connector (Center PIN: SMA Female)Sensitivity-167dBm@Tracking149dBm@Acquisition161dBm@Re-acquisitionPosition Accuracy<2.5m CEPProtocol1 × RS232 (R5485 Optional)Connector3.5mm Terminal BlockBaud Rate300bps to 230400bpsOumbers1 × DI (dry contact) + 1 × D0 (wet contact), galvanic isolationConnector3.5mm Terminal BlockMumbers1 × DI (dry contact) + 1 × D0 (wet contact), galvanic isolationConnector3.5mm Terminal BlockMumbers1 × ND (dry contact) + 1 × D0 (wet contact), galvanic isolationConnector3.5mm Terminal BlockMumbers1 × ND (dry contact) + 1 × D0 (wet contact), galvanic isolationConnector3.5mm Terminal BlockMutileWatchdog, TimerNumbers1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerNetwork ProtocolsPPP. PPDe, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSF, DDNS, vRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPSec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MACB Binding, SPI Fir	WI-FI Interface (Op	uunai)					
802.11b: 16 dBm +/-1.5 dBm (11 Mbps)Tx Power802.11g: 14 dBm +/-1.5 dBm (54 Mbps)802.11n: 13 dBm +/-1.5 dBm (65 Mbps, HT20/40 MCS7)ModesAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryptionGPS (Optional)Antenna Connector1 × 50 0 SMA Connector (Center PIN: SMA Female)Sensitivity-167dBm@Tracking,-149dBm@Acquisition,-161dBm@Re-acquisitionPosition Accuracy<2.5m CEP	Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: RP-SMA Female)					
Tx Power802.11g: 14 dBm +/-1.5 dBm (54 Mbps) 802.11n: 13 dBm +/-1.5 dBm (65 Mbps, HT20/40 MCS7)ModesAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryptionGPS (Optional)	Standards	IEEE 802.11 b/g/n, 2.4GHz					
BitBitModesAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryptionGPS (Optional)Antenna Connector1 × 50 0 SMA Connector (Center PIN: SMA Female)Sensitivity-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisitionPosition Accuracy<2.5m CEP		802.11b: 16 dBm +/-1.5 dBm (11 Mbps)					
ModesAP or Client modeSecurityWPA/WPA2 authentication, WEP/TKIP/AES encryptionGPS (Optional)Antenna Connector1 × 50 0 SMA Connector (Center PIN: SMA Female)Sensitivity.167dBm@Tracking, .149dBm@Acquisition, .161dBm@Re-acquisitionPosition Accuracy<2.5m CEP	Tx Power	802.11g: 14 dBm +/-1.5 dBm (54 Mbps)					
SecurityWPA/WPA2 authentication, WEP/TKIP/AES encryptionGPS (Optional)Antenna Connector1 × 50 0 SMA Connector (Center PIN: SMA Female)Sensitivity-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisitionPosition Accuracy<2.5m CEPProtocolNMEA0183, PMTKSerial InterfaceNumbers1 × RS232 (RS485 Optional)Connector3.5mm Terminal BlockBaud Rate300bps to 230400bpsDI/DOVumbers1 × DI (dry contact) + 1 × D0 (wet contact), galvanic isolationConnector3.5mm Terminal BlockBaud Rate0.3A@30VDC (DO)OthersReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, Do&BDDOS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local Authentication		802.11n: 13 dBm +/-1.5 dBm (65 Mbps, HT20/40 MCS7)					
GPS (Optional)Antenna Connector1 × 50 0 SMA Connector (Center PIN: SMA Female)Sensitivity-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisitionPosition Accuracy<2.5m CEP	Modes	AP or Client mode					
Antenna Connector1 × 50 Ω SMA Connector (Center PIN: SMA Female)Sensitivity-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisitionPosition Accuracy<2.5m CEP	Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption					
Sensitivity-167dBm@Tracking. 149dBm@Acquisition161dBm@Re-acquisitionPosition Accuracy<2.5m CEP	GPS (Optional)						
Position Accuracy<2.5m CEPProtocolNMEA0183, PMTKSerial InterfaceNumbers1 × RS232 (RS485 Optional)Connector3.5mm Terminal BlockBaud Rate300bps to 230400bpsDI/DOUNmbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMumbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)OthersReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDOS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Antenna Connector	1 × 50 Ω SMA Connector (Center PIN: SMA Female)					
ProtocolNMEA0183, PMTKSerial InterfaceNumbers1 × RS232 (RS485 Optional)Connector3.5mm Terminal BlockBaud Rate300bps to 230400bpsDI/DODI/DONumbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMumbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)OthersReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPOE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDOS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Sensitivity						
Serial InterfaceNumbers1 × RS232 (RS485 Optional)Connector3.5mm Terminal BlockBaud Rate300bps to 230400bpsDI/DO3.5mm Terminal BlockNumbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)Others1 × RESETReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareVPNVPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GREPeeurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Position Accuracy	<2.5m CEP					
Numbers1 × RS232 (RS485 Optional)Connector3.5mm Terminal BlockBaud Rate300bps to 230400bps DI/DO Numbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO) Others Reset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareVPNPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDOS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationHultilevel AuthorityMutiple Levels of User Authority	Protocol	NMEA0183, PMTK					
Connector3.5mm Terminal BlockBaud Rate300bps to 230400bpsDI/DONumbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)OthersReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDOS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Serial Interface						
Baud Rate300bps to 230400bpsDI/DONumbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)OthersIReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwarePPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Numbers	1 × RS232 (RS485 Optional)					
DI/DONumbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)OthersEndet State Stat	Connector	3.5mm Terminal Block					
Numbers1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolationConnector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)OthersReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local Authentication	Baud Rate	300bps to 230400bps					
Connector3.5mm Terminal BlockMaximum V/A0.3A@30VDC (DO)OthersIReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwarePPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultiple Levels of User Authority	DI/DO						
Maximum V/A0.3A@30VDC (DO)OthersReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local Authentication	Numbers	1 × DI (dry contact) + 1 × DO (wet contact), galvanic isolation					
OthersReset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DOS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Connector	3.5mm Terminal Block					
Reset Button1 × RESETLED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DOS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Maximum V/A	0.3A@30VDC (DO)					
LED Indicators1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strengthBuilt-inWatchdog, TimerSoftwarePPP, PPPOE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DOS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Others						
Built-inWatchdog, TimerSoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Reset Button	1 × RESET					
SoftwareNetwork ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultiple Levels of User Authority	LED Indicators	1 × POWER, 1 × SYSTEM, 1 × SIM, 3 × Signal strength					
Network ProtocolsPPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Built-in	Watchdog, Timer					
Network ProtocolsVRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Software						
VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.VPNDMVPN, IPsec, OpenVPN, PPTP, L2TP, GRESecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DOS&DDOS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority		PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS,					
SecurityAccess Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Network Protocols	VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, etc.					
SecurityDoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	VPN	DMVPN, IPsec, OpenVPN, PPTP, L2TP, GRE					
DoS&DDoS Protection, Filtering(IP&Domain), IP PassthroughManagementWeb, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DevicehubAAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority	Security	Access Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls,					
AAARadius, Tacacs+, LDAP, Local AuthenticationMultilevel AuthorityMultiple Levels of User Authority		DoS&DDoS Protection, Filtering(IP&Domain), IP Passthrough					
Multilevel Authority Multiple Levels of User Authority	Management	Web, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, Devicehub					
	AAA	Radius, Tacacs+, LDAP, Local Authentication					
Reliability VRRP, WAN Failover, Dual SIM Backup	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							
	Gateway (Modbus RTU to Modbus TCP)							
Power Supply and Consumption								
Power Connector	3-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 3							
EMO	IEC 61000-4-4 Level 3							
EMS	IEC 61000-4-5 Level 3							
	IEC 61000-4-6 Level 3							
	IEC 61000-4-8 Level 4							
Radio Frequency	EN 301 489-1/17/19/52, EN 301 511, EN 301 908-1/2/13, EN 303 413,							
	EN300 328							
Safety	EN60950-1							

Ordering Information

Model	Wi-Fi	GPS	ΡοΕ	Frequency Bands (CAT4) *	Serial Port
UR32-L0xx	-		-	- L00E: B1/B3/B5/B7/B8/B20@LTE	
UR32-L0xx-P		-	\checkmark	FDD,B38/B40/B41@LTE TDD, B1/B5/B8@WCDMA, B3/B8@GSM - L00AF:	
UR32-L0xx-W	V		-	B2/B4/B5/B12/B13/B14/B66/B71@ LTE FDD, B2/B4/B5@WCDMA	<na>: RS232</na>
UR32-L0xx-P-W		-	V	- L00AU: B1/B2/B3/B4/B5/B7/B8/B28@LTE FDD, B40@LTE TDD,B1/B2/B5/B8	-485: RS232/RS485 Switchable
UR32-L0xx-G	-		-	@WCDMA,B2/B3/B5/B8@GSM - L01CE: B1/B3/B5/B8@LTE	
UR32-L0xx-G-P		V	V	FDD,B38/B39/B40/B41@LTE TDD, B1/B8@WCDMA, B34/B39 @TD-SCDMA, BC0@CDMA2000 1×/EVDO,B3/B8@GSM	

*Please contact Milesight for more information about frequency bands.

Xiamen Milesight IoT Co., Ltd. 4/F, No.63-2 Wanghai Road, 2nd Software Park, Xiamen 361008, China Phone: +86-0592-5023060 Website: www.milesight-iot.com Fax: +86-0592-5023065 Email: iot.sales@milesight.com

