



הראוטרם שלנו

כל הראוטרם כוללים:

- VPN
- חיבורי סלולרי יציב לרשתות 2G / 3G / 4G
- חיבור לרשת האינטרנט G4 עם מעבר אוטומטי לדור G3G/2
- ניתוח פעילות ושליטה מרחוק בעזרת פקודות סמס
- פלטפורמה מבוססת ענן לניהול הראוטר
- גודל פיזי קטן להתקנה במקומות מוגבלים
- אפשרות להתקנה על קיר או פס דין



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ראוטר R1510 Lite



תכונות עיקריות

- יציאות אינטרנט - 1
- מספר סימים - 1

SPECIFICATIONS

Cellular Interface

Number of antennas	1 external antenna (MAIN)
Connector	SMA-K
SIM	1* (3 V & 1.8 V) Standard SIM or eSIM

Ethernet Interface

Number of ports	1 x 10/100 Mbps, 1 x LAN
Magnet isolation	1.5 KV

Others

Reset button	1 x RST
LED indicators	1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1xWLAN (Reserved)
Built-in	Watchdog, Timer

Power Supply and Consumption

Connector	2-pin 3.5 mm female socket
Input voltage	9 to 36V DC
Power consumption	Idle: 100 mA@12 V Data link: 500 mA (peak) @12 V

Physical Characteristics

Ingress protection	IP30
Housing & Weight	Plastic, 150 g
Dimensions	91.5 x 91.5 x 31.5 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating Temperature	-25 to +70 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	5 to 95% RH

Software (Basic features of RobustOS)

Network protocols	PPPoE, DHCP, NAT, DNS, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc.
VPN tunnel	IPsec, OpenVPN, GRE
Firewall	DMZ, anti-DOS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
Management	Web, CLI, SMS

SDK

Supported programming languages	C, C++, Linux Shell scripts
Flash available for SDK	4MB
RAM available for SDK	64MB

App Center (Available Apps for RobustOS)

Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS, Data Guard v2
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*Request on demand For more Apps please visit www.robustel.com

Approvals

EMI	EN 55032: 2012/AC: 2013 (CE) Class B EN 55032: 2012/AC: 2013 (RE) Class A
EMS	IEC 61000-4-2 (ESD) Contact Level 2; IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 2 IEC 61000-4-6 (CS) Level 2

*(In progress)

*See ordering information for details about other certifications

ראוטר R1511

תכונות עיקריות

- יציאות אינטרנט - 2
- מספר סימים - 1
- חיבור WIFI
- תקשורת סיריאלית



SPECIFICATIONS

Cellular Interface

Number of antennas	2 external antennas (MAIN + AUX)
Connector	SMA-K
SIM	1 x (3 V & 1.8 V) Standard SIM or eSIM

Ethernet Interface

Number of ports	2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN
Magnet isolation protection	1.5 KV

WiFi Interface

Number of antennas	2 (1 external antenna, 1 PCB antenna)
Connector	RP-SMA-K (external antenna)
Standards	802.11b/g/n, supports AP and Client modes
Frequency bands	2.4 GHz
Security	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP
Data speed	2 x 2 MIMO, 300 Mbps
RF output power (+/-1 dBm)	802.11b 19 dBm 802.11g 19 dBm 802.11n (20 MHz) 18 dBm 802.11n (40 MHz) 17 dBm
Receiving sensitivity (+/-1 dBm)	802.11b -93 dBm 802.11g -90 dBm 802.11n (20 MHz) -88 dBm 802.11n (40 MHz) -85 dBm

Serial Interface

Type	1 x RS232 or 1 x RS485 (Hardware configuration)
Connector	3-pin 3.5 mm female socket
Baud rate	300bps to 115200bps

Others

Reset button	1 x RST
LED indicators	1 x RUN, 1 x MDM, 1 x USB, 1 x RSSI, 1 x WLAN
Built-in	Watchdog, Timer

SDK

Supported programming languages	C, C++, Linux Shell scripts
Flash available for SDK	4MB
RAM available for SDK	64MB

Software (Basic features of RobustOS)

Network protocols	PPPoE, TCP, UDP, DHCP, NAT, DNS, NTP, SMTP, VLAN, SSH2, DDNS, etc.
VPN tunnel	IPsec, OpenVPN, GRE
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
Remote Management	Web, CLI, SMS

App Center (Available Apps for RobustOS)

Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS
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*Request on demand. For more Apps please visit www.robustel.com.

Power Supply and Consumption

Connector	2-pin 3.5 mm female socket
Input voltage	9 to 36V DC
Power consumption	Idle: 100 mA@12 V Data link: 500 mA (peak) @12 V

Physical Characteristics

Ingress protection	IP30
Housing & Weight	Plastic, 150g
Dimensions	91.5 x 91.5 x 31.5 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating temperature	-25 to +70 °C
Storage temperature	-40 to +85 °C
Relative humidity	5 to 95% RH

Approvals

EMI	EN 55032: 2012/AC: 2013 (CE & RE) Class B
EMS	IEC 61000-4-2 (ESD) Contact Level 2 IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 2 IEC 61000-4-6 (CS) Level 2

*See ordering information for details about other certifications

ראוטר R1520

תכונות עיקריות

- יציאות אינטרנט - 5
- מספר סימים - 2
- חיבור WIFI
- תקשורת סיריאלית
- כניסות אנאלוגיות I/O



SPECIFICATIONS

Cellular Interface	
Number of antennas	2
Connector	SMA-K
SIM	2, Standard SIM or eSIM
Ethernet Interface	
Number of ports	5 x 10/100 Mbps, 5LAN by default, can be configured as 1WAN + 4LAN
WAN port	Support 802.3af & 802.3at PD feature on ETH0
Magnet isolation protection	1.5 KV
WiFi Interface	
Number of antennas	2
Connector	RP-SMA-K
Standards	802.11b/g/n, supports AP and Client modes
Frequency bands	2.4 GHz
Security	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP
Data speed	2 x 2 MIMO, 300 Mbps
DI/DO	
Type	1 x DI + 1 x DO, wet contact
Isolation	3 KV
Socket form	2 x 3-pin 3.5 mm female socket
Level	3 to 30V DC = HIGH, 0 to 1V DC = LOW
Absolute maximum VDC	30V DC (DI/DO)
Absolute maximum ADC	10mA (DI/DO)
Analog Input	
Type	1 x AI (can be configured as voltage type or current type)
Voltage input range	0 to 24V DC
Current input range	4-20mA (current-type input requires external resistance, and finally measured by voltage)
Socket form	2 x 3-pin 3.5 mm female socket
Signal definition	AI, AGND
Serial Port	
Type	1 x RS232 + 1 x RS485 serial port
Socket form	2 x 4-pin 3.5 mm female socket
Signal definition	RS232: RXD, TXD, SGND, RTS, CTS RS485: Data+ (A), Data- (B), ground (GND)
Other Interface	
1 x GPS interface (Optional, depending on the cellular module)	
1 x 480Mbps high-speed USB2.0 interface	

Others	
Reset button	1 x reset button (RST button)
RTC	External RTC clock, Backup energy storage capacitor can be maintained for 2 days
LED indicators	1 x RUN, 1 x MDM, 1 x USR, 1 x RSSI, 1 x WiFi
Built-in	Watchdog, Timer
Software (Basic features of RobustOS)	
Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPS, DNS, ARP, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc.
VPN tunnel	IPsec, OpenVPN, GRE
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
Remote management	Web, CLI, SMS
App Center (Available Apps for RobustOS)	
Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS
*Request on demand. For more Apps please visit www.robustel.com .	
Power Supply and Consumption	
Connector	2-pin 3.5 mm socket with lock
Input voltage	9 to 36V DC
Power consumption	Idle: 100 mA@12 V Data link:1.0 A (peak) @12 V
Physical Characteristics	
Ingress protection	IP30
Housing & Weight	Plastic, 250 g
Dimensions	105 x 90 x 46 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating temperature	-25 to +70 °C
Storage temperature	-40 to +85 °C
Relative humidity	5 to 95% RH
Approvals	
Environmental	RoHS2.0, WEEE
EMC	
EMI	EN 55032: 2012/AC: 2013 (CE & RE) Class B
EMS	IEC 61000-4-2 (ESD) Contact Level 2 IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 2 IEC 61000-4-6 (CS) Level 2 IEC 61000-4-11 (DIP) Level 2
See ordering information for details about other certifications	

ראוטר R5020



תכונות עיקריות

- דור 5
- יציאות אינטרנט - 4
- מספר סימים - 2
- חיבור WIFI
- תקשורת סיריאלית
- כניסות אנאלוגיות
- I/O
- מארז מתכתי IP30

SPECIFICATIONS

Cellular Interface

Number of antennas	4 (ANT0 + ANT1 + ANT2 + ANT3)
Connector	SMA-K
SIM	2 (3 V & 1.8 V) Standard SIM;

GNSS

Number of antennas	2 (ANT1 + ANT2, Multiplexing cellular antenna interface)
Connector	SMA-K
GNSS technology	GPS/GLONASS*/BeiDou/Galileo*
Horizontal position accuracy	< 2m
*in plan	

Ethernet Interface

Number of ports	4 x 10/100/1000 Mbps, 4 LAN by default, can be configured as 1 WAN + 3 LAN Support 802.3at PD feature on ETH0 (optional)
Magnet isolation protection	1 KV

WiFi Interface

Number of antennas	2 (WiFi1 + WiFi2)
Connector	RP-SMA-K
Standards	802.11a/b/g/n/ac 2*2 MIMO, supports AP and Client modes
Frequency bands	2.412 - 2.472 GHz (2.4 GHz ISM band) 5.15 - 5.825 GHz (5 GHz ISM band)
Security	WPA, WPA2, WEP
Encryption	AES, TKIP, WEP64
Data speed	5G: Up to 867Mbps 2.4G: Up to 300Mbps

Serial Interface

Number of ports	1 x RS-232 + 1 x RS-485
Connector	2 x 5-pin 3.5 mm female socket
ESD protection	±8 KV
Baud rate	300bps to 115200bps
Signal definition	TXD, RXD, GND (RS-232) Data+ (A), Data- (B), ground (GND) (RS-485)

DI/DO

Type	1x DI + 1 x DO, wet contact
Connector	2 x 5-pin 3.5 mm female socket
Isolation	3.75KV DC (opto-isolator)
Absolute maximum VDC	“V+” +30V DC (DI), +30V DC (DO)
Absolute maximum ADC	100 mA
Signal definition	IN, OUT, IGND, OGND

Others

Reset button	1 x Tactile Switch
Expansion	1 x USB2.0 Host; 5V/500mA
LED indicators	1 x RUN, 1 x Modem, 1 x USR, 1 x RSSI, 1 x NET, 1 x WIFI
Built-in	Watchdog

Software (Basic features of RobustOS)

Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPS, DNS, ARP, NTP, SMTP, Telnet, SSH2, DDNS, etc.
VPN tunnel	IPsec, OpenVPN, GRE
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
Management	Web, CLI, SMS
Serial port	Transparent, TCP Client/Server, UDP, Modbus RTU to TCP
Others	Smart Reboot, Data Guard, Smart Roaming, etc.

SDK

Supported programming languages	C, C++, Linux Shell scripts
Flash available for SDK	5MB
RAM available for SDK	256MB

App Center (Available Apps for RobustOS)

Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, SNMP, Language, RCMS, Dynamic route, Captive Portal, Modbus Master, TR069
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*Request on demand. For more Apps please visit www.robustel.com.

Power Supply and Consumption

Connector	3-pin 3.5 mm female socket with lock
Input voltage	9 to 36V DC (without Ignition sensing) ; 10 to 30V DC (with Ignition sensing)
Power consumption	Idle: 500 mA@12 V Data link: 1.2 A (peak) @12 V

Physical Characteristics

Ingress protection	IP30
Housing & Weight	Aluminum, 500 g
Dimension	125 x 100 x 48 mm
Installations	Desktop, wall mounting and DIN rail mounting
Operating Temperature	-25 to +70 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	5 to 95% RH

Approvals

Regulatory	CE*, RCM*
Application	E-Mark*
Environmental	RoHS2.0*, WEEE*
*in plan	