

# SECURITY SYSTEM

## 4G industrial Cellular LTE Router (WIFI, 4x LAN & 1x WAN, 2x DI & 2x DO, RS232 & USB ports)

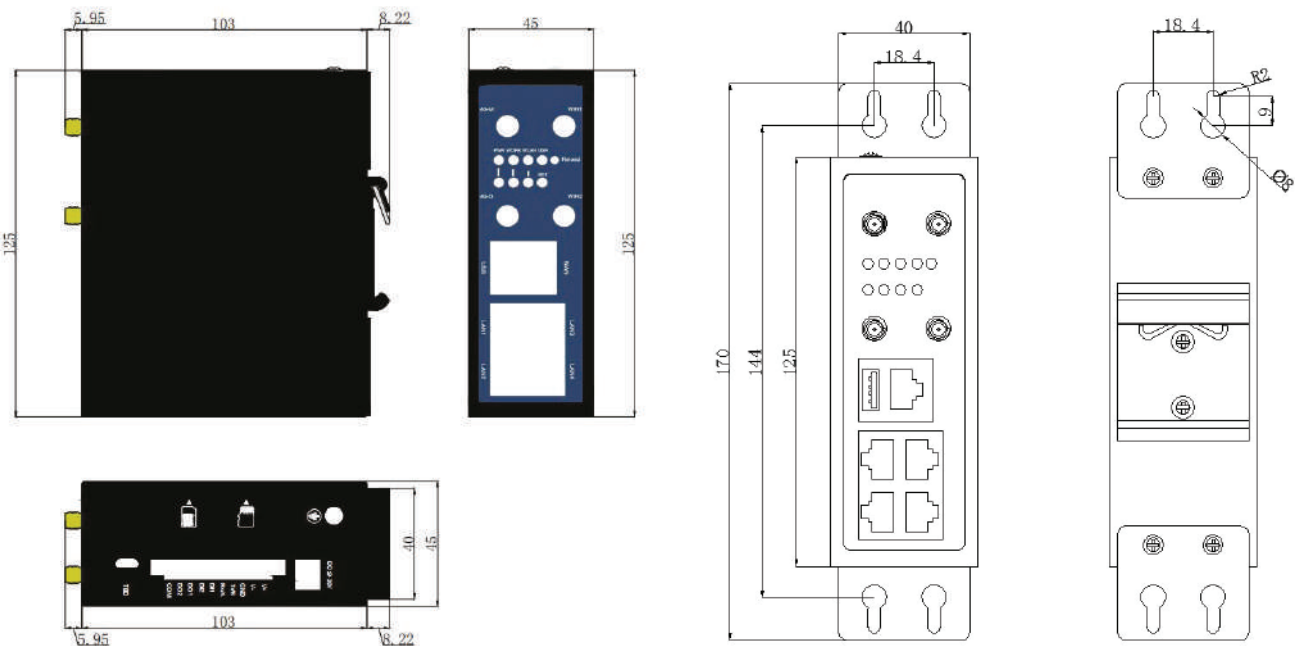
LSLTE-4PR is an industrial cellular VPN router that integrates 4G LTE, Wi-Fi, DIDO, serial port, Ethernet ports (4 LAN and 1 WAN) and VLAN, VPN technologies to provide state-of-the-art Internet connectivity and high-speed data access for equipment networking.



### FEATURES

- Industrial design, metal enclosure, protection class IP30
- Wide input voltage DC 9-36V, with reverse polarity protection
- ESD, Surge, EFT/Burst protection
- Hardware and software watchdog, multi-layer link detection mechanism make it self-recovery from unexpected failure and guarantee reliable communication between remote devices and data center
- Provides comprehensive security protections for sensitive business data, including secure VPN transmission, firewall against network attacks
- Supports 2G/3G/4G network all over the world, supports APN / VPDN private network access
- Supports automatic detection of cellular network, 4G/3G/2G mode automatic switching
- Supports failover between 4G and WAN, ensures automatic switch to alternative backup connection, effectively ensuring uninterrupted data transmission
- Supports 2.4GHz WiFi, scaling more devices access, support wired and wireless connecting Internet
- Compatible with 5.8GHz WiFi (optional)
- Supports PUSR cloud platform to facilitate remote monitoring and central management of large-scale device networks
- Supports configuration parameters import/export, greatly improve the efficiency for massive deployment
- Support access the built-in web page of the router via PUSR cloud without the need of private network or public IP
- Supports DDNS, static routes, easy accessing devices underneath the router
- Supports firewall, NAT, DMZ, black and white list of access control
- Supports Port based VLAN separation, allows network administrators to group hosts together even if the hosts are not on the same network switch
- Supports Email/SMS/DO alarm, abnormal alert push in time
- Extensive interfaces including 4 Ethernet ports, serial port RS232/RS485 (alternative), USB, 2\*DI, 2\*DO, Wi-Fi, and GPS (optional) further expand your choices
- Serial modem supports user-defined register & heartbeat packets, transparent TCP/UDP protocol, multi-center.
- Supports VPN (PPTP, L2TP, IPSec, OpenVPN, GRE), and VPN encryption function, suitable for various networking and high-security requirements Scenarios

### FEATURES



- Unit: mm
- DIN Rail mounting: 125.0\*117.2\*45.0mm (L\*W\*H, including antenna pedestal and DIN-Rail)
- Ear mounting installation: 170.0\*117.2\*45.0mm (L\*W\*H, including mounting ears and antenna pedestal)

## SPECIFICATIONS

Antenna	2 x SMA-K
SIM card	1 x (3 V & 1.8 V) Standard 2FF SIM, drawer-type sim card slots
Ethernet	1 x WAN port 10/100 Mbps, compliance with IEEE 802.3, supports auto MDI/MDIX,1.5KV network isolation transformer protection
	4 x LAN ports, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX,1.5KV network isolation transformer protection
LED	PWR: red,always on after powered on Work: green,blinking when the router is ready and working properly WLAN: green,always solid on when WiFi is enabled and working properly Net indicator: Red always on after connected to 2G network / Green always on after connected to 3G network Orange always on after connected to 4G network / Signal strength : 3 solid bars,strongest signal
Terminal block Pinout	V+,V- : 2 cores terminal power supply socket,built-in power supply phase-reversal protection / GND: ground terminal Tx/B:RS-232/RS485 pin ( setup by software ) / Rx/A:RS-232/RS485 pin ( setup by software ) DI:2 x Digital input,passive switch / DO:2 x Digital open collector output, max output 36 V, 300 mA COM: common terminal,use in conjunction with DOs
WiFi Standards & Frequency	IEEE 802.11b/g/n,2.4GHz, AP mode
Data speed	IEEE 802.11b/g,maximum 54Mbps.IEEE 802.11n,maximum 150Mbps
Antenna	2 x RP-SMA-K
Transmission distance	80 meters by line of sight.Actual transmission distance depends on environment of the site.
Power Supply Adaptor	DC 12V/1A
Connector	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket or industrial terminal block,reverse polarity protection
Input voltage	DC 9-36V
Working power	Average 522mA/12V, Maximum 811mA/12V
RS485/RS232(alternative)	industrial terminal block. Note:RS232 default.
Baud rate(bps)	1200,2400,4800,9600,19200,38400,57600,115200,230400
Data bits	8
Stop bits	1, 2
Parity	NONE,ODD,EVEN
Housing	Metal shell,IP30
Dimensions	125.0*103.0*45.0mm (L*W*H,antenna pedestal,terminal block and DIN Rail are not included)
Installation method	Ear mounting, DIN-Rail mounting
EMC	Static IEC61000-4-2, level 3 / Pulsed Electric Field IEC61000-4-4, level 3 / Surge IEC61000-4-5, level 3
Operating temperature	-20°C~+70°C
Storage temperature	-40°C~+125°C
Humidity	5%~95%RH ( non-condensing )
Reload	Pinhole button,restore factory defaults/firmware resume/firmware upgrading with USB
TBD	Debug interface (TTL Level)
USB	Firmware upgrading
TF	TF card slot
Ground protection	Screw
Embedded Watchdog	Device runs self-detection, auto recovers from malfunctions
Certificate	CE

## SOFTWARE SPECIFICATIONS

WAN protocol	PPP, PPPoE, DHCP client
LAN protocol	ARP, DHCP server, NAT · VLAN
4G network access	Auto APN/VPDN, private network / Access authentication: CHAP/PAP
WLAN security	Open system,WPA/WPA2 PSK / TKIP/AES encryption
IP routing	Static routing
Network diagnosis	Ping,route trace,DNS
Work mode	NET,HTTPD
Sockets	4 sockets,4centers ,TCPS(SOCKA)/TCPC/UDPS/UDPC
Modbus RTU to TCP	Support
DI/ DO Events	SMS, EMAIL
Management Configuration	Web
Remote management	SSH, AT command,SNMP,SMS
PUSR platform	Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router
Failover backup	Failover between 4G and WAN, ensures automatic switch to alternative backup connection
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
VPN	Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols
DDNS	Remote access the device through domain name
Alarm	Email,SMS,DO
Others	NTP client ; Timing task ; USB firmware upgrade ; User defined indicator

## ORDERING INFORMATION

P/N	Descriptions
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