

TLE3-71300-5120-T

Industrial Cellular IoT Gateway



- Equipped with a dual-SIM LTE module with failover function
- WiFi Compliance IEEE802.11n/ac 2T2R
- Multiple (8) SSIDs for privilege group devices or users
- 4*GE LAN port with tag based and port based VLANs
- RS232/RS485 interface for Modbus RTU/ASCII and various serial communication protocol
- DI/DO for device triggering or event reporting
- Equipped with OPC UA server and multi-mode data logging function, which stores the collected logs on attached storage for SCADA telemetry
- Embedded SPI firewall and IPS function for cyber-attack prevention
- Support NAT, Routing, and IPv6
- Support VPN technologies, such as IPSec, OpenVPN, PPTP and L2TP, supporting up to 16 concurrent IPSec tunnels
- Support SNMP, Telnet & SSH via the CLI, and TR-069 for remote management
- Seamless power failover between redundant 12V~48VDC wide range power input

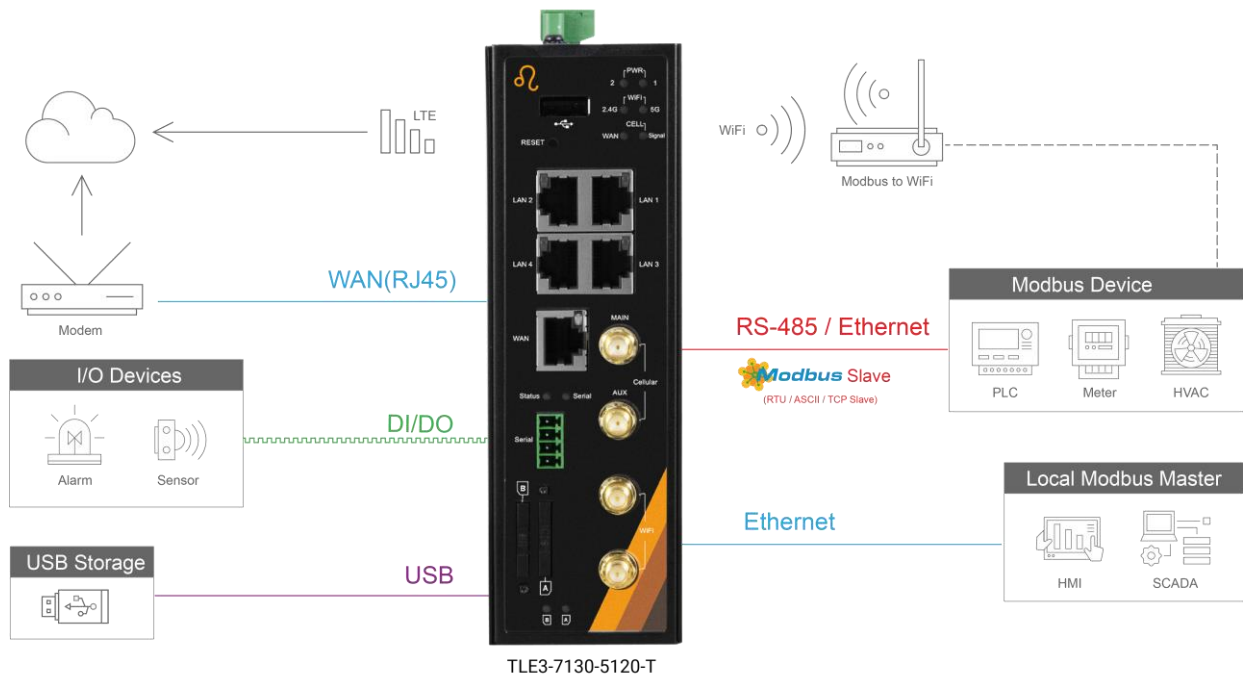


Introduction

Leonton's TLE3-71300-5100-T is loaded with luxuriant security features including VPN, firewall, NAT, port forwarding, DHCP server and many other powerful features for outdoor IP surveillance applications. The redundancy design in fallback 12-48 VDC power terminal, and dual SIM cards make the data transmission, and network connection without lost.

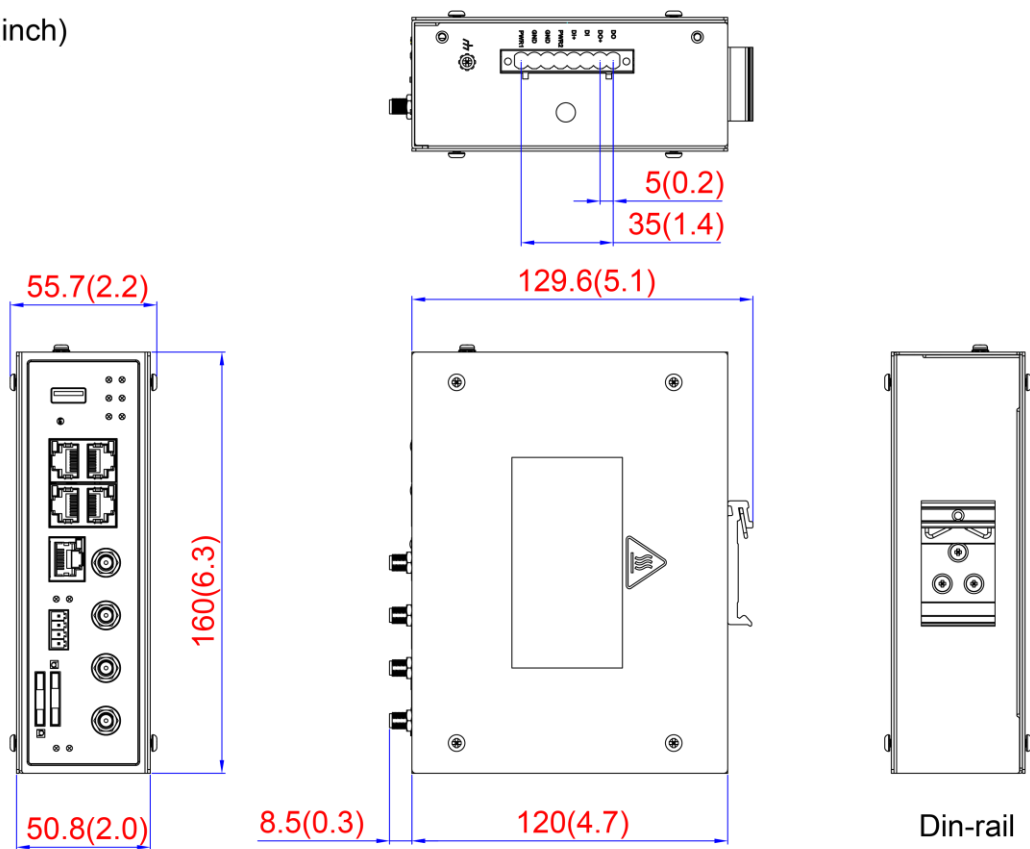
With a built-in world-class 4G LTE module, users just need to insert SIM card from local mobile carrier to get to the Internet. The dual SIM design provides a more reliable WAN connection for critical applications. By VPN tunneling technology, remote sites easily become a part of Intranet, and all data are transmitted in a secure (256-bit AES encryption) link. The feature of DI/DO allows gateway to have real-time response whenever events are detected by sensors. For M2M (Machine-to-Machine) applications, LEONTON's Industrial Cellular IoT Gateway is absolutely the right choice.

Diagram



Dimension

Unit: mm (inch)



Specification

Device Interfaces

Uplink	1*LTE cat.4 module2 (dual SIM) 1*RJ45 GE (configurable)
LAN-RJ45	4*RJ45 GE
LAN-WiFi	802.11a/b/g/n/ac 2T2R (2.4G/5GHz selectable)
Comm. Bus	1*RS232/RS485 (4-pin Terminal Block)
I/O	1*DI (“Logic 0”: 0~2V, “Logic 1”: 5V~30V), 1*DO (Relay Mode, up to 30V / 1A)
Log Storage	1*USB 2.0
Antenna	2*SMA Jack (Female) for external LTE Ant. 2*SMA Jack (M) for ext. WiFi Ant. (2.4G/5GHz)
Power Source	Dual DC 12V~48V

WAN Functions

WAN	Multiple WANs, Failover/Load Balance, Configurable Ethernet/4G
Cellular	2G/3G/LTE, IP Pass-through SIM-SIM Failover / Failback
Ethernet	Dynamic IP, Static IP, PPPoE, PPTP, L2TP
IPv6	Static IPv6, DHCPv6, PPPoEv6

Basic Functions

Ethernet	LAN IP, Subnet Mask
WiFi Operation	AP Router, WDS only, WDS Hybrid Modes
WiFi Security	WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x
VLAN	Port-based, Tag-based
DNS & DDNS	Third Party Providers: DynDNS.org (Dynamic/Custom), No-IP.com, TZO.com, and Dynamic DO!.jp (free/Charge)
Port Forwarding	Virtual Server/ Computer, DMZ Host Pass-through: PPTP/ L2TP/IPSec
Routing	Static and Dynamic: RIPv1/v2, OSPF, BGP
QoS	Policy-based Bandwidth Control and Packet Flow Prioritization
Redundancy	VRRP

Field Communication

Virtual COM	RFC2217, TCP Client, TCP Server, UDP
Modbus	Modbus Slave Modbus Gateway for Modbus TCP Master/Slave, Modbus RTU/ASCII Master/Slave Access
OPC UA	OPC UA Server, compliant to IEC 62541 Device Tag & Modbus Proxy Rules
MQTT	MQTT Broker, Broker Bridge, MQTT Client
Data Logging	Sniffer, Off-line Proxy, Full-time Proxy, Sniffer & Proxy mixed modes

Security

VPN Tunneling	IPSec, OpenVPN, PPTP, L2TP, GRE Tunneling with Full Tunnel, Tunnel Failover
IPsec Tunnel Scenario	Site to Site, Site to Host, Host to Site, Host to Host
Firewall	SPI Firewall with Stealth Mode, IPS
Access Control	Packet Filter, URL Blocking, and MAC Control

Service

Cellular Toolkit	SMS, Data Usage, SIM PIN, USSD, Network Scan
Event Handling	Managing / Notifying Events, DO, SMS, Modbus, Syslog, SNMP Trap(v1 and v2c), Email Alert and Remote Host

Administration

Configuration& Management	Web, Telnet & SSH via the CLI, Command Script, TR-069, SNMP(v1/V2c/V3) & Private MIB
System Operation	MMI, System Info., System Time / Log, Backup & Restore, Reboot & Reset
FTP	FTP Server, User Account
Diagnostic	Packet Analyzer, Diagnostic Tools

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions	62x125x160mm (w/o mounting kit) 62x135x160mm (with DIN Rail kit)
Weight	1.57 Kg
Mounting	DIN-Rail Mounting, Wall Mounting

Environmental Limits

Operating Temperature	-30° C ~ 70° C
Storage Temperature	-40° C ~ 85° C
Ambient Relative Humidity	10% ~ 95% (non-condensing)

Standards & Regulation

EMI	EN 55032: 2015 +AC: 2016 Class B EN 61000-3-2:2014 EN 61000-3-3:2013
EMS	EN 55024:2010+A1:2015 EN 61000-6-2:2005+AC:2005 IEC 61000-4-2(ESD) Level 4, IEC 61000-4-3(RS) Level 3 IEC 61000-4-4(EFT) Level 4, IEC 61000-4-5(Surge) Level 3 IEC 61000-4-6(CS) Level 3, IEC 61000-4-8(PFMF) Level 4
Radio	EN 301 489-1/-7/-17/-24/-52, EN 300 328 V2.1.1 EN 301 893 V1.8.1, EN 50385
Safety	EN 60950-1
Warranty	5 years

Notes

1. Specifications are subject to change without prior notice.
2. Supported cellular frequency depends on regional hardware version.
3. 3G/4G and WiFi performance will be degraded if device's ambient temperature is above 60°C.

Packet Contents

	pcs
TLE3-71300-5120-T	1
8 pin Terminal Block	1
4 pin Terminal Block	1
RJ45 Cable	1
Cellular Antenna	2
2.4/5Ghz Antenna	2
DIN-Rail Bracket	1

Ordering Information

TLE3-71300-5120-T	Industrial Cellular IoT Gateway, -30° C ~ 70° C
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Optional Accessories

HDR-60-24	60W Industrial Din Rail Power Supply, 24VDC
NDR-75-12	75W Industrial Din Rail Power Supply, 12VDC