

# OnCell 3120-LTE-1 系列

## 工業 LTE Cat.1 行動通訊閘道器



### 特色與優點

- 低耗電量 (待機時為 40 mW)
- GuaranLink 提供可靠的蜂巢式網路連線
- 以雙 SIM 卡提供雙蜂巢式網路系統備援
- 堅固耐用的硬體設計，適合用於高危險場所 (ATEX Zone 2/IECEX 規格)
- 使用 IPsec、GRE 和 OpenVPN 通訊協定的 VPN 安全連線功能

### 認證



## 簡介

OnCell 3120-LTE-1 系列是一組可靠、安全、低耗電量的 LTE 閘道器，具有最先進的全球 LTE Cat 1 涵蓋範圍。這些 LTE 行動通訊閘道器提供從遠端串列和乙太網路裝置到行動通訊網路的可靠連線，以便對於 IIoT 遠端存取情境輕鬆實現應用。OnCell 3120-LTE-1 系列藉由高效率的節電功能在待機模式下將耗電量降至 40 mW 以下，可使用排程進行管理。為了提高工業網路可靠性，OnCell 3120-LTE-1 採用 GuaranLink 確保強大的行動通訊網路連線。

### 具備 VPN 和網路安全功能的遠端存取閘道器

- 由集中式 IP 管理軟體 OnCell Central Manager 管理
- 提供 NAT/OpenVPN/GRE/IPsec 功能的安全可靠 VPN 支援
- 基於 IEC 62443-4-2 的網路安全功能

### 工業級可靠性

- 耐用硬體設計非常適合危險場所 (ATEX、C1D2、IECEX)
- GuaranLink 提供可靠的蜂巢式網路連線
- -30 至 70°C 寬操作溫度
- 低耗電量：待機模式下小於 40 mW

## 規格

### Cellular Interface

Cellular Standards	LTE CAT-1, HSPA, UMTS, EDGE, GPRS, GSM
LTE Data Rate	10 MHz bandwidth: 10.2 Mbps DL, 5.2 Mbps UL
HSPA Data Rates	7.2 Mbps DL, 5.76 Mbps UL
Band Options (EU)	LTE Band 1 (2100 MHz) / LTE Band 3 (1800 MHz) / LTE Band 8 (900 MHz) / LTE Band 20 (800 MHz) / LTE Band 28 (700 MHz) UMTS/HSPA 2100 MHz / 900 MHz GSM 900 MHz / 1800 MHz
Band Options (AU)	LTE Band 3 (1800 MHz) / LTE Band 5 (850 MHz) / LTE Band 8 (900 MHz) / LTE Band 28 (700 MHz) UMTS/HSPA 2100 MHz / 850 MHz / 900 MHz
Band Options (US)	LTE Band 2 (1900 MHz) / LTE Band 4 (1700MHz (AWS)) / LTE Band 5 (850 MHz) / LTE Band 12 (700 MHz) / LTE Band 13 (700 MHz) / LTE Band 14 (700 MHz) / LTE Band 66 (1700 MHz) / LTE Band 71 (600 MHz)

	UMTS/HSPA 1900 MHz / 1700 MHz / 850 MHz
No. of SIMs	2
SIM Format	Nano SIM
Cellular Antenna Connectors	2 SMA female

#### Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	2
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#### USB Interface

No. of USB Ports	1
USB Connector	USB Type A
USB Standards	USB 2.0

#### Serial Interface

No. of Ports	1
Connector	DB9 male
Serial Standards	RS-232/422/485
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Baudrate	75 bps to 921.6 kbps
Console Port	RS-232 (TxD, RxD, GND), 4-pin header output (115200, n, 8, 1)

#### Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND

#### Ethernet Software Features

Management	GuaranLink, DHCP server, DDNS, ARP, Telnet, TCP/IP, UDP, SMTP, Remote SMS Control, Power Saving, Syslog, SNMPv1/v2c/v3, Serial Console, Telnet Console, Web Console, OnCell Central Manager, Wireless Search Utility
Firewall	Filter: MAC, IP protocol, port-based, Access IP list
Routing	NAT, Port forwarding
Security	HTTPS
Time Management	SNTP Client

#### IPsec VPN

Authentication	PSK/X.509/RSA
Encryption	DES, 3DES, AES, MD5, SHA-1, DH2, DH5
Concurrent VPN Tunnels	5

## OpenVPN

OpenVPN	OpenVPN (client and server), Tunnel mode (routing) and TAP mode (bridge)
Encryption	Blowfish CBC, DES CBC, DES-EDE3 CBC, AES-128/192/256 CBC
Concurrent VPN Tunnels	5

## Power Parameters

Input Current	0.8 A (max.)
Input Voltage	9 to 36 VDC
Power Consumption	5 W (typ.)
Power Connector	Terminal block
Reverse Polarity Protection	Supported
Power Button	Reset button

## Physical Characteristics

Housing	Metal
IP Rating	IP30
Dimensions	128.5 x 26 x 89.1 mm (5.06 x 1.02 x 3.51 in)
Weight	550 g (1.22 lb)
Installation	DIN-rail mounting, Wall mounting (with optional kit)

## Environmental Limits

Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -30 to 70°C (-22 to 158°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

## Standards and Certifications

EMC	EN 55032/24, EN 61000-6-2/-6-4
EMI	CISPR 22, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V; 150 kHz to 80 MHz IEC 61000-4-8: 30 A/m
Freefall	IEC 60068-2-32
Hazardous Locations	ATEX, IECEx, Class I Division 2
Radio Frequency	PTCRB, FCC ID SLE-LE910CXNF
Radio	RCM, KC
Carrier Approvals	Verizon AT&T
Cellular Standards	EN 301511 EN 301908-1 EN 62311(MPE SAR)

	AS/CA S042 EN 301489-1/-52
Safety	IEC 60950-1, IEC 62368-1, UL 60950-1, UL 62368-1
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Green Product	RoHS, CRoHS, WEEE

### MTBF

Time	585,775 hrs
Standards	Telcordia SR332

### Warranty

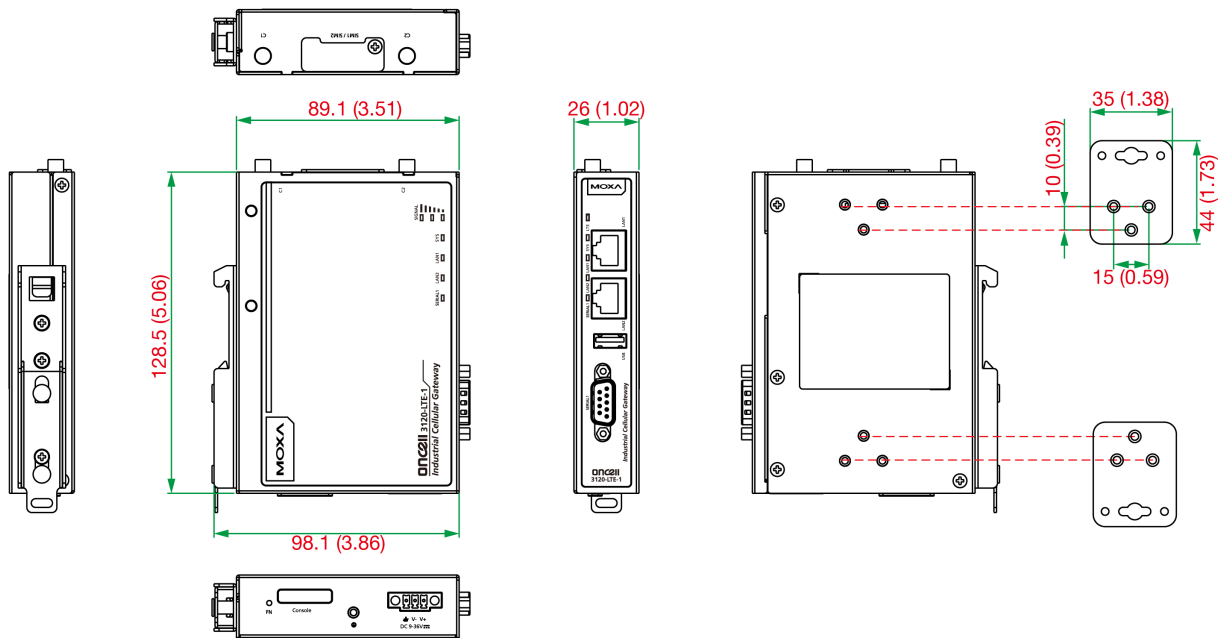
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>

### Package Contents

Device	1 x OnCell 3120-LTE-1 Series LTE cellular gateway <sup>1</sup>
Installation Kit	1 x DIN-rail kit
Documentation	1 x quick installation guide 1 x warranty card

## 尺寸

Unit: mm (inch)



1. 已啟動的 nano SIM 卡 (未隨附) 必須由第三方蜂巢式網路服務供應商提供。

## 訂購資訊

Model Name	Cellular Standard	LTE Band	Operating Temp.	Mounting
OnCell 3120-LTE-1-EU	LTE Cat 1	B1 (2100 MHz) / B3 (1800 MHz) / B8 (900 MHz) / B20 (800 MHz) / B28 (700 MHz)	-0 to 55°C	Wall, DIN rail
OnCell 3120-LTE-1-EU-T	LTE Cat 1	B1 (2100 MHz) / B3 (1800 MHz) / B8 (900 MHz) / B20 (800 MHz) / B28 (700 MHz)	-30 to 70°C	Wall, DIN rail
OnCell 3120-LTE-1-AU	LTE Cat 1	B3 (1800 MHz) / B5 (850 MHz) / B8 (900 MHz) / B28 (700 MHz)	-0 to 55°C	Wall, DIN rail
OnCell 3120-LTE-1-AU-T	LTE Cat 1	B3 (1800 MHz) / B5 (850 MHz) / B8 (900 MHz) / B28 (700 MHz)	-30 to 70°C	Wall, DIN rail
OnCell 3120-LTE-1-US	LTE Cat 1	B2 (1900 MHz) / B4 (1700 MHz) / B5 (850 MHz) / B12 (700 MHz) / B13 (700 MHz) / B14 (700 MHz) / B66 (1700 MHz) / B71 (600 MHz)	-0 to 55°C	Wall, DIN rail
OnCell 3120-LTE-1-US-T	LTE Cat 1	B2 (1900 MHz) / B4 (1700 MHz) / B5 (850 MHz) / B12 (700 MHz) / B13 (700 MHz) / B14 (700 MHz) / B66 (1700 MHz) / B71 (600 MHz)	-30 to 70°C	Wall, DIN rail

## 配件 (選購)

### Antennas

ANT-LTEUS-ASM-01	GSM/GPRS/EDGE/UMTS/HSPA/LTE, omni-directional rubber duck antenna, 1 dBi
ANT-LTE-ASM-02	GPRS/EDGE/UMTS/HSPA/LTE, omni-directional rubber duck antenna, 2 dBi
ANT-LTE-ANF-04	GSM/GPRS/EDGE/UMTS/HSPA/LTE, omni-directional outdoor antenna, 4 dBi, IP66

### Wireless Antenna Cables

CRF-SMA(M)/N(M)-300	N-type (male) to SMA (male) CFD200 cable, 3 m
A-CRF-SMSF-R3-100	Cellular magnetic base, SMA connector, 1 m

### Mounting Kits

WK-35-04	2 plates (35 x 44 x 2.5mm) with 6 screws (FTSx6 M3x4mm)
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