

OnCell 3120-LTE-1 系列

工業 LTE Cat.1 個蜂巢式網路閘道器



特色與優點

- 支援 MRC Quick Link Ultra，用於集中監控和遠端存取現場裝置
- 低功耗（待機 40 mW）
- GuaranLink 提供可靠的蜂巢式網路連線
- 藉由雙 SIM 卡實現或雙行動網路業者備用
- 行動網路 WAN 和 乙太網路 WAN 備援機制，實現完整的路徑備援
- 堅固的硬體設計非常適用於危險場所 (ATEX Zone 2/IECEX)
- 具備 VPN 安全連線能力，支援 IPsec、GRE 和 OpenVPN 等通訊協定

認證



簡介

OnCell 3120-LTE-1 系列是一組可靠、安全、低功耗的 LTE 閘道器，具備最先進的全球 LTE Cat 1 涵蓋範圍。這些 LTE 蜂巢式網路閘道器提供從遠端串列和乙太網路裝置到蜂巢式網路的可靠連接，以便對於 IIoT 遠端存取情境輕鬆進行您的應用。藉由高效率的節能功能，OnCell 3120-LTE-1 系列在待機模式下可將功耗降至 40 mW 以下，而且可以按時程管理功耗。為了增強工業可靠性，OnCell 3120-LTE-1 採用 GuaranLink 確保穩定的蜂巢式網路連線。

具有 VPN 和網路安全的遠端存取閘道器

- 支援 MRC Quick Link Ultra，可遠端存取，且容易設定。如需詳細資訊，請造訪安全遠端存取 (<https://www.moxa.com/en/products/industrial-network-infrastructure/secure-remote-access/moxa-remote-connect-suite>)。
- 具有 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

- 堅固耐用的硬體設計，非常適合危險場所應用（ATEX、C1D2、IECEX）
- GuaranLink 提供可靠的蜂巢式網路連線
- 蜂巢式網路和乙太網路之間的 WAN 備份
- -30至 70°C 寬範圍操作溫度
- 低功耗：待機模式下低於 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 7 (2600 MHz) / LTE Band 8 (900 MHz) / LTE Band 20 (800 MHz) / LTE Band 28A (700 MHz) UMTS/HSPA 900 MHz / 1800 MHz / 2100 MHz GSM 900 MHz / 1800 MHz

Band Options (AU)	LTE Band 1 (2100 MHz) / LTE Band 3 (1800 MHz) / LTE Band 5 (850 MHz) / LTE Band 8 (900 MHz) / LTE Band 9 (1800 MHz) / LTE Band 18 (850 MHz) / LTE Band 19 (850 MHz) / LTE Band 26 (850 MHz) / LTE Band 28 (700 MHz) UMTS/HSPA 2100 MHz / 850 MHz / 800 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 Wireless Search Utility Moxa Remote Connect (MRC)
Firewall	Filter: MAC, IP protocol, port-based Access IP list
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

NAT

Features	NAT loopback 1-to-1 N-to-1 Port forwarding
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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 55032/35 EN 61000-6-2/-6-4
EMI	CISPR 32, 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: 1 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 kHz to 150 MHz; Signal: 80 V 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 JATE NCC TELEC
Carrier Approvals	Verizon AT&T
Cellular Standards	EN 301 511 EN 301 908-1 EN 62311(MPE SAR) AS/CA S042 EN 301489-1/-52
Cybersecurity	EN 18031-1
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 Standard SR-332

Warranty

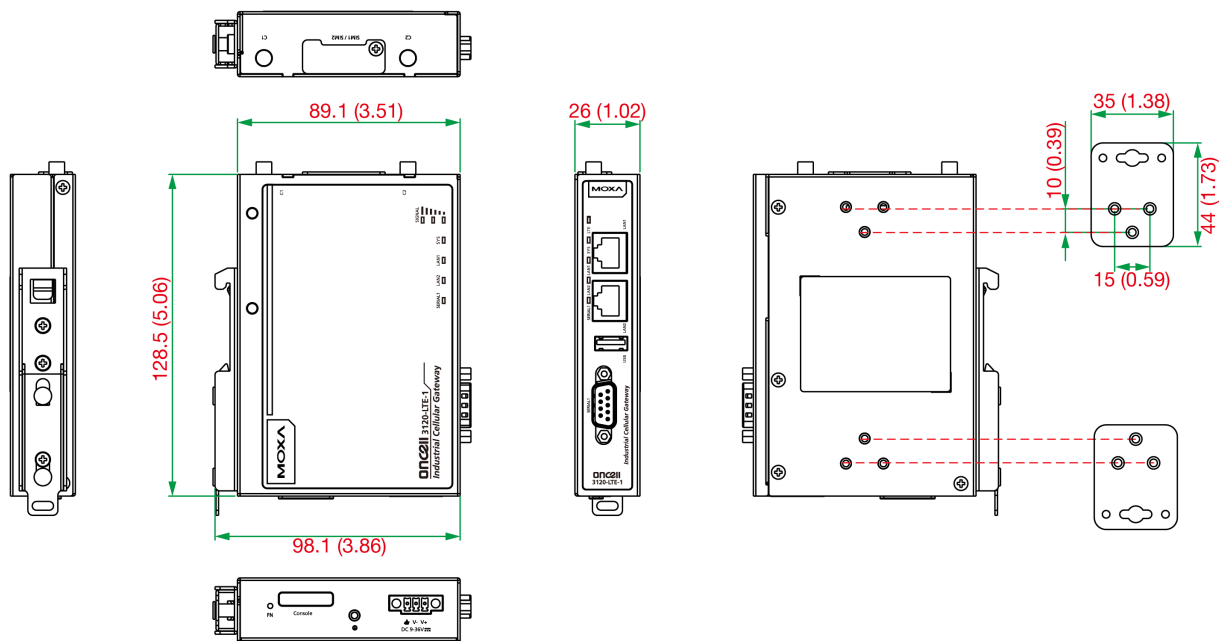
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

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

尺寸

單位：公釐（英吋）



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) / B7 (2600 MHz) / B8 (900 MHz) / B20 (800 MHz) / B28A (700 MHz)	-0 to 55°C	Wall, DIN rail
OnCell 3120-LTE-1-EU-T	LTE Cat 1	B1 (2100 MHz) / B3 (1800 MHz) / B7 (2600 MHz) / B8 (900 MHz) / B20 (800 MHz) / B28A (700 MHz)	-30 to 70°C	Wall, DIN rail
OnCell 3120-LTE-1-AU	LTE Cat 1	B1 (2100 MHz) / B3 (1800 MHz) / B5 (850 MHz) / B8 (900 MHz) / B9 (1800 MHz) / B18 (850 MHz) / B19 (850 MHz) / B26 (850 MHz) / B28 (700 MHz)	-0 to 55°C	Wall, DIN rail
OnCell 3120-LTE-1-AU-T	LTE Cat 1	B1 (2100 MHz) / B3 (1800 MHz) / B5 (850 MHz) / B8 (900 MHz) / B9 (1800 MHz) / B18 (850 MHz) / B19 (850 MHz) / B26 (850 MHz) / B28 (700 MHz)	-30 to 70°C	Wall, DIN rail

1. 已啟動的 nano SIM 卡 (未隨附) 必須由第三方行動網路服務供應商提供。

Model Name	Cellular Standard	LTE Band	Operating Temp.	Mounting
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, 1 dBi, omnidirectional rubber-duck antenna
ANT-LTE-ASM-02	GPRS/EDGE/UMTS/HSPA/LTE, 2 dBi, omnidirectional rubber-duck antenna
Wireless Antenna Cables	
A-CRF-SMSF-R3-100	Wireless antenna cable with SMA (male) to SMA (female) connectors, magnetic base, RG-174 type, 1 m
Mounting Kits	
WK-35-04	Wall-mount kit with 2 plates (35 x 44 x 2.5 mm), 6 screws (FTS x 6 M3 x 4 mm)
Software	
LIC-MRCQL-ADD-1Y-XN-SR	1-year MRC Quick Link add-on license with customizable node quantity (minimum 1 node)

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