

RB-LHGLTE7

MikroTik LHGG LTE Cat 7 - LTE Outdoor CPE

Product Overview

MikroTik LHGG LTE Cat 7 - LTE Outdoor CPE, LHGGR&R11e-LTE7, RouterOS V7 Operating System, 256MB RAM, 16 MB storage size, PoE-in, LTE category 7, DL 300 Mbps, UL 100 Mbps), 1x Gigabit Ethernet Ports, 1x SIM slot (Micro SIM)



Specifications

Overview Summary:

The MikroTik LHGG LTE7 kit is a robust outdoor LTE Cat 7 router engineered for reliable internet in remote locations. With a high-gain 17 dBi directional antenna, dual-core CPU, and up to 100 Mbps upload speeds, it ensures fast and stable connectivity. Ideal for rural homes, remote offices, and video surveillance setups, this unit supports Gigabit Ethernet and PoE-In for flexible installation. Shop now to enhance your internet performance where traditional networks fall short.

Durable and designed to withstand harsh weather, the LHGG LTE7 maintains consistent performance with a rugged grid antenna, passive cooling, and an operating range from -40degrees C to 70degrees C. Its lightweight design minimizes wind impact, making it simple to mount on poles or masts. Buy now to secure strong and stable LTE connectivity in South Africa's remote areas.

Performance tier:High-performance

Uses:Rural internet access, remote office connectivity, video surveillance, VPN, multi-user networks

Overview:

Reliable Outdoor LTE Connectivity for Remote and Demanding Environments

The MikroTik LHGG LTE7 kit is an upgraded outdoor LTE solution designed to deliver stable, high-speed internet access in areas where traditional connectivity is limited or unavailable. Building on the success of earlier models, this version introduces a Cat7 LTE modem with improved upload performance, while retaining the proven high-gain 17 dBi grid antenna. The result is a robust, cost-effective device engineered for long-distance wireless connectivity in rural, industrial, or off-grid deployments.

Description:

The LHGG LTE7 kit combines a powerful LTE Category 7 modem with a directional high-gain antenna to provide consistent and responsive internet in challenging locations. Its rugged grid design minimizes wind resistance while maintaining signal strength, making it suitable for outdoor installations on poles or masts. With improved uplink speeds, efficient power consumption, and support for a wide range of LTE bands, this device is well-suited for applications such as remote monitoring, video surveillance, and reliable broadband access in underserved areas.

Features:

Built for Long-Range Signal Stability

Designed specifically for last-mile connectivity, this outdoor CPE excels in locations where mobile coverage is weak. The integrated directional antenna enhances signal reception, allowing users to connect to distant towers with improved stability. This makes it a practical option for farms, construction sites, and remote offices where consistent connectivity is critical.

The upgraded LTE Cat7 modem supports download speeds up to 300 Mbps and upload speeds up to 100 Mbps, significantly improving responsiveness for bandwidth-intensive tasks such as cloud access, VPN usage, and real-time communication.

Engineered for Harsh Outdoor Conditions

Durability is a core strength of this unit. Its grid-style antenna reduces wind load, ensuring stability even in exposed environments. The enclosure is designed to withstand extreme temperatures ranging from -40 C to +70 C, while passive cooling and an integrated heat sink maintain performance under continuous operation.

Flexible mounting options allow for installation on poles or masts, making deployment straightforward across a variety of outdoor scenarios.

Hardware and System Performance

The device runs on a modern ARM-based architecture with RouterOS v7, delivering efficient processing and advanced networking capabilities. Its dual-core CPU ensures smooth handling of routing tasks, while the Gigabit Ethernet port enables high-speed wired connectivity.

Key hardware highlights include:

- ARM 64-bit architecture with dual-core 800 MHz CPU
- 256 MB RAM and 16 MB flash storage
- RouterOS v7 with license level 3
- Passive cooling for silent, maintenance-free operation
- Part number RB-LHGLTE7 integrated into system identification and deployment records

Connectivity and Network Support

This model supports a wide range of LTE and 3G bands, ensuring compatibility with multiple network providers and regions. Expanded band support, including B28 and B32, improves coverage flexibility.

Core connectivity details:

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Product Specification Sheet

- LTE Category 7 with 2x2 MIMO downlink and 1x1 uplink
- Supported LTE FDD bands: 1, 3, 5, 7, 8, 20, 28
- Supported LTE TDD bands: 38, 40, 41
- 3G fallback with multiple band support
- Single Micro SIM slot for mobile connectivity

Power and Installation Efficiency

Power is delivered via PoE-in, simplifying installation by reducing the need for additional cabling. The system is energy-efficient, with low overall consumption.

Important power specifications:

- PoE-in support (802.3af/at)
- Input voltage range: 12 to 57 V
- Maximum power consumption: 8 W
- Includes PoE injector and power adapter for immediate deployment

Practical Applications

This device is particularly suited to scenarios where wired infrastructure is unavailable or impractical. It provides a dependable connection for both personal and professional use cases.

Typical use cases include:

- Rural broadband access
- Remote CCTV and security systems
- Industrial IoT deployments
- Backup internet for business continuity
- Field operations and temporary installations

What's Included

The package contains everything required for installation and setup:

- LHGG LTE7 outdoor unit
- 24V 0.8A power adapter
- Gigabit PoE injector
- Hose clamps and mounting hardware
- K-LHG screw kit

A Cost-Effective Solution for Always-On Connectivity

With its combination of high-gain antenna design, improved LTE performance, and rugged construction, the LHGG LTE7 kit offers a practical solution for users who need reliable internet beyond the reach of traditional networks. The inclusion of part number RB-LHGLTE7 ensures accurate identification for procurement and deployment across projects.

Specifications:

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Specifications	
Product Code	RB-LHGLTE7
Specifications	
Product code	LHGG&R11e-LTE7

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Product Specification Sheet

Architecture	ARM 64bit
CPU	88F3720
CPU core count	2
CPU nominal frequency	800 MHz
CPU Threads count	2
RouterOS license	3
Operating System	RouterOS v7
Size of RAM	256 MB
Storage size	16 MB
Storage type	FLASH
MTBF	Approximately 200'000 hours at 25C
Tested ambient temperature	-40degreesC to 70degreesC
Powering	
Number of DC inputs	1
	(PoE-IN)
Max power consumption	8 W
Max power consumption without attachments	8 W
PoE in	802.3af/at
Cooling type	Passive
PoE in input Voltage	12-57 V
Mobile	
3G Category	R8 (DL: 42.2 Mbps , UL: 5.76 Mbps)
3G bands	1 (2100 MHz)
	3 (1800 MHz)
	5 (850 MHz)
	8 (900 MHz)
LTE Category	7 (DL: 300 Mbps , UL: 100 Mbps)
MIMO DL	2x2
MIMO UL	1x1
LTE FDD bands	1 (2100 MHz)
	3 (1800 MHz)
	5 (850 MHz)
	7 (2600 MHz)
	8 (900 MHz)
	20 (800 MHz)
	28 (700 MHz)

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Product Specification Sheet

LTE TDD bands	38 (2600 MHz)
	40 (2300 MHz)
	41 (2500 MHz)
TAC	35312597
Ethernet	
10/100/1000 Ethernet ports	1
Peripherals	
Number of SIM slots	1
	Modem
	(Micro SIM)
MiniPCI-e slots	1
Other	
Mode button	Yes
Certification & Approvals	
Certification	CE, EAC, ROHS
IP	54
Included parts	24V 0.8A power adapter
	Gigabit PoE injector
	Hose clamp 2
	K-LHG screw kit

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/RB-LHGLTE7-MikroTik-LHGG-LTE-Cat-7-LTE-Outdoor-CPE-Buy-p-335556.php>

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