

KGX61

Ruggedized Transportation Gateway



Overview

The KGX61 Ruggedized Transportation Gateway provides power and cloud connectivity to up to 10 Verkada transportation cameras via PoE, while capturing GPS location and telemetry data. It draws power from the vehicle battery, connects to the vehicle diagnostics system, and uses 5G or Wi-Fi to bring the system online.

Key features

Footage on demand

Access live or historical footage in Command while a vehicle is en route. Remotely wake the gateway to retrieve footage when the vehicle is powered off.

High-speed connectivity

Use 5G while in transit and automatically switch to Wi-Fi when in range. In remote areas, connect to a satellite terminal via WAN.

GPS location

View vehicle location and ongoing trips across your fleet in one map. Access a vehicle's entire trip history and use an incident's location to surface specific footage.

Driving event detection

Automatically capture driving events such as speeding, harsh braking, harsh turning, and incomplete stops.

Fleet health visibility

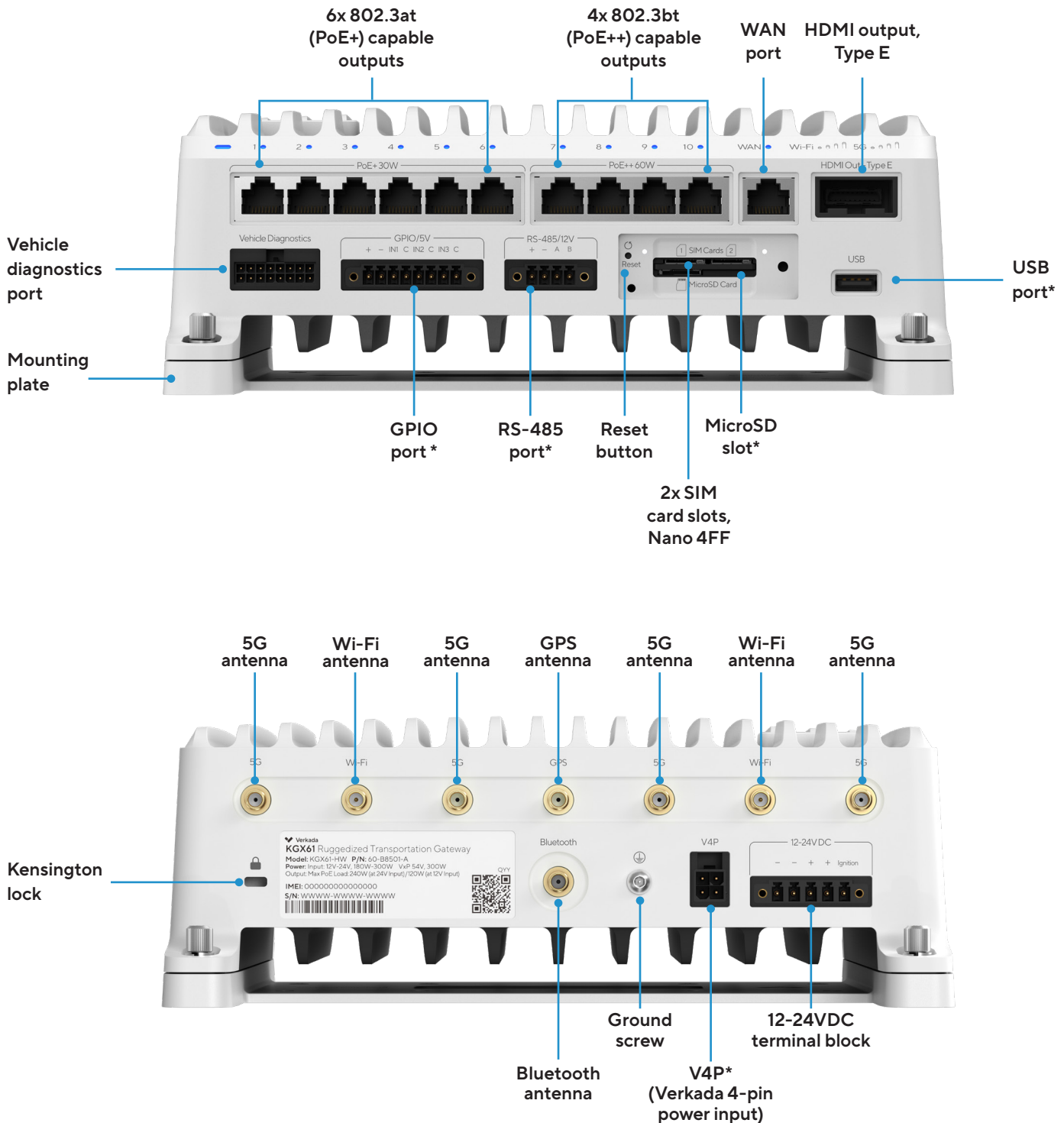
Track fuel levels, coolant temperatures, throttle positions, and other key diagnostic metrics across your fleet.

Driver display support

Connect a tablet or monitor to display live camera feeds and give drivers real-time visibility of their vehicle.



Inputs and outputs



*Not currently supported



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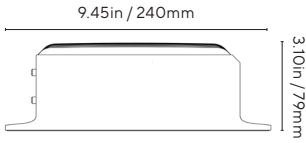
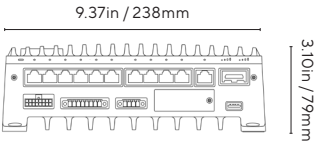
Tech specs

General

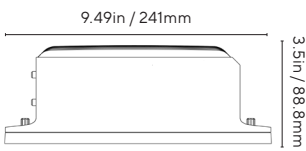
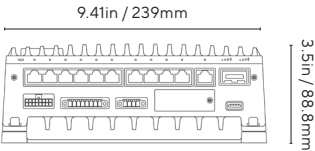
Power consumption	13.9W at 77°F / 25°C	Design and testing standards	MIL-STD-810H (shock and vibration only), SAE J1455 (shock, vibration, and electrical only)
Weight	Main unit: 6.61lb / 3kg Main unit with mount plate: 7.5lb / 3.39kg	Mounting options	Wall mount or tabletop (with Kensington slot)
Dimensions	Main unit: D: 9.45in / 240mm W: 9.37in / 238mm H: 3.10in / 79mm Main unit with mount plate: D: 9.49in / 241mm W: 9.41in / 239mm H: 3.5in / 88.8mm	Management interface	Verkada Command (WAN connection required), Bluetooth (Command iOS app required), local server page (via Ethernet)
Humidity	5-90% RH non-condensing	LED indicators	1 device status 2 SIM indicator 4 cell signal strength 4 Wi-Fi signal strength 11 port status
Operating temperature	-40°F to 158°F / -40°C to 70°C @ 120W power output -40°F to 122°F / -40°C to 50°C @ 240W power output	Warranty	10 years
Certifications ¹	For hardware certification information, please visit verkada.com/compliance .	Included accessories	Mounting plate, 4x #10 machine screws, 4x rivet nuts, 4x #10 tapping screws, T25 security torx screwdriver, T10 security torx screwdriver, paper template for mounting holes, GPIO terminal block, RS-485 terminal bloc, 12-24V DC terminal block

Dimensions

Without mount plate



With mount plate





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Tech specs

Cellular

Modem	5G NR, LTE Cat 19/20	MIMO	2x2 DL MIMO
SIM	2 physical SIM slots (Nano 4FF) 1 embedded eSIM Dual SIM/auto SIM failover	Cellular antennas	4x external omni (SMA Female)

Wi-Fi

Wi-Fi standards	802.11a/b/g/n/ac/ax (Wi-Fi 6) 2.4 or 5 GHz (single radio)	Wi-Fi antennas	2x external omni (RP-SMA Male)
Wi-Fi security	WPA2/3 PSK WPA2/3 Enterprise (username/password only)	MIMO	2x2 DL MU-MIMO
Wi-Fi operating mode	Client/STA		

Inputs and outputs

Ethernet	11x GigE RJ45 ports (10x LAN and 1x WAN/LAN configurable)	Bluetooth protocol	Bluetooth 5.0 (BLE) 1x external omni (SMA Female)
Power input	12-24V DC terminal block 54V V4P (Verkada 4-pin power input) ²	Vehicle diagnostics port	16-pin Molex connector, supports J1939 and OBD-II
Power output	6x 802.3at (PoE+) capable ports 4x 802.3bt (PoE++) capable ports 120W total budget @ 12V DC 240W total budget @ 24V DC	GPIO block²	3x GPIOs for functional expansion Outputs: 5V, 500mA max sourcing Inputs: compatible up to 5V, configurable internal pull-ups Dedicated ground pin per GPIO
GPS/GNSS	Passive GNSS (GPS, GLONASS, and Galileo)	RS-485¹	1x 4-pin RS-485 port for connecting Verkada RS-485 peripherals Pinout: 12V power, GND, RS-485 A, RS-485 B 15W max output (12V @ 1.25A)
GPS antennas	1x external omni (SMA Female)	HDMI port	Version 1.4, up to 1080p @ 60Hz, video only (no audio support), automotive Type E connector

2. Not currently supported.



Verkada cellular data plan

Verkada takes away the challenge of working with cell carriers with our hassle-free data plan, which works out of the box in many countries across the world.

Key benefits

Instant connectivity out of the box

Once powered, the KGX61 automatically connects to a carrier with the eSIM.

Unlimited data

Unlike most carriers, which throttle your speed after a certain threshold, Verkada offers truly unlimited data.

24/7 support

Get help right when you need it. Our support team responds in seconds to chats and calls, and in minutes to an email.

Multi-carrier redundancy

The Verkada data plan works across major carriers, allowing the KGX61 to automatically switch carriers if the current network is down.

Global coverage

Please refer to [this list](#) to see which carriers we currently use in each country that we support. In the US, the Verkada SIM will default to Verizon and failover to AT&T or T-Mobile if needed.

How it works

A data license (LIC-GC-1VD) provides unlimited data for one video device. The base cloud license for the KGX61 (LIC-TSP-GWY) includes unlimited data for non-video devices, such as access controllers or sensors. Please see Ordering Information at the end of this document for pricing. Note: Cloud backup is disabled on devices that use the Verkada data plan. Customers can enable cloud backup if they bring their own data plan. For more details, please refer to this [knowledge base article](#).

Bring your own data plan

Customers also have the option to bring their own data plan. The KGX61 is compatible with SIM cards from virtually all major carriers in most countries throughout the world. For a list of carriers that have been tested and verified by Verkada, please refer to this [knowledge base article](#).

Always connected

Customers can insert their own SIM card in one slot while keeping the Verkada eSIM for automatic failover. If the customer-provided SIM fails, the Verkada eSIM helps ensure that the gateway is always reachable.

Flexible configuration

Customers may also use their own SIM cards in both slots. In this case, customers can configure one slot as the primary SIM and use the other for automatic failover if needed.



Ordering information

KGX61 Ruggedized Transportation Gateway

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
KGX61-HW	KGX61 Ruggedized Transportation Gateway, 10-Port PoE, 120W PoE Budget, 5G-NR, Wi-Fi 7	\$2,499	\$2,499

Accessories

To relay telematics, the KGX61 requires a Verkada transportation diagnostics cable, available in J1939 and OBD-II variants. Each cable includes an adapter to enable the KGX61 to work alongside other diagnostics solutions. An external dome antenna is also available for enhanced cellular, Wi-Fi, and GPS performance.

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
ACC-TSP-CBL-1	Transportation Diagnostics Cable, J1939 Type 2, 4.5m	\$99	\$99
ACC-TSP-CBL-2	Transportation Diagnostics Cable, OBD-II Type A, 4.5m	\$99	\$99
ACC-TSP-CBL-3	Transportation Diagnostics Cable, OBD-II Type B, 4.5m	\$99	\$99
ACC-TSP-ANT-1	External Dome Antenna for KGX61, Cellular, Wi-Fi, and GPS	\$399	\$399



Ordering information

Transportation Gateway license (new/capacity increase)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-TSP-GWY-1Y-CAP	1-Year Transportation Gateway License, Capacity Increase	\$349	\$349
LIC-TSP-GWY-3Y-CAP	3-Year Transportation Gateway License, Capacity Increase	\$999	\$999
LIC-TSP-GWY-5Y-CAP	5-Year Transportation Gateway License, Capacity Increase	\$1,599	\$1,599
LIC-TSP-GWY-10Y-CAP	10-Year Transportation Gateway License, Capacity Increase	\$3,199	\$3,199

Transportation Gateway license (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-TSP-GWY-1Y-RNW	1-Year Transportation Gateway License, Renewal	\$349	\$349
LIC-TSP-GWY-3Y-RNW	3-Year Transportation Gateway License, Renewal	\$999	\$999
LIC-TSP-GWY-5Y-RNW	5-Year Transportation Gateway License, Renewal	\$1,599	\$1,599
LIC-TSP-GWY-10Y-RNW	10-Year Transportation Gateway License, Renewal	\$3,199	\$3,199



Ordering information

Cellular Gateway data plan (new/capacity increase)

Data for Verkada video devices, such as cameras or intercoms, can be purchased through add-on licenses. Customers bringing their own data plan do not need these licenses.

The data plan includes unlimited data for one video device.

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-GC-1VD-1Y-CAP	1-Year Cellular Gateway Data Plan, Capacity Increase Includes unlimited data for Verkada non-video devices ¹	\$599	\$599
LIC-GC-1VD-3Y-CAP	3-Year Cellular Gateway Data Plan, Capacity Increase Includes unlimited data for Verkada non-video devices ¹	\$1,799	\$1,799
LIC-GC-1VD-5Y-CAP	5-Year Cellular Gateway Data Plan, Capacity Increase Includes unlimited data for Verkada non-video devices ¹	\$2,999	\$2,999

Cellular Gateway data plan (renewal)

Data for Verkada video devices, such as cameras or intercoms, can be purchased through add-on licenses. Customers bringing their own data plan do not need these licenses.

The data plan includes unlimited data for one video device.

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-GC-1VD-1Y-RNW	1-Year Cellular Gateway Data Plan, Renewal Includes unlimited data for Verkada non-video devices ¹	\$599	\$599
LIC-GC-1VD-3Y-RNW	3-Year Cellular Gateway Data Plan, Renewal Includes unlimited data for Verkada non-video devices ¹	\$1,799	\$1,799
LIC-GC-1VD-5Y-RNW	5-Year Cellular Gateway Data Plan, Renewal Includes unlimited data for Verkada non-video devices ¹	\$2,999	\$2,999



Ordering information

Cellular Gateway data plan for government (new/capacity increase)

Each cellular gateway requires a license which includes unlimited data for Verkada non-video devices.

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-GC-1Y-CAP-G	1-Year Cellular Gateway License for Government, Capacity Increase Includes unlimited data for Verkada non-video devices	\$449	\$449
LIC-GC-3Y-CAP-G	3-Year Cellular Gateway License for Government, Capacity Increase Includes unlimited data for Verkada non-video devices	\$1,249	\$1,249
LIC-GC-5Y-CAP-G	5-Year Cellular Gateway License for Government, Capacity Increase Includes unlimited data for Verkada non-video devices	\$1,999	\$1,999
LIC-GC-10Y-CAP-G	10-Year Cellular Gateway License for Government, Capacity Increase Includes unlimited data for Verkada non-video devices	\$3,999	\$3,999

Cellular Gateway data plan for government (renewal)

Data for Verkada video devices, such as cameras or intercoms, can be purchased through add-on licenses. Customers bringing their own SIM/plan do not need these licenses.

Our data plan includes unlimited data for one video device.

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-GC-1VD-1Y-CAP-G	1-Year Cellular Gateway Data Plan for Government, Capacity Increase Includes unlimited data for Verkada non-video devices ¹	\$599	\$599
LIC-GC-1VD-3Y-CAP-G	3-Year Cellular Gateway Data Plan for Government, Capacity Increase Includes unlimited data for Verkada non-video devices ¹	\$1,799	\$1,799
LIC-GC-1VD-5Y-CAP-G	5-Year Cellular Gateway Data Plan for Government, Capacity Increase Includes unlimited data for Verkada non-video devices ¹	\$2,999	\$2,999

1. The CH52-E Multisensor requires 4 data licenses (1 for each camera head).