GC31 Cellular Gateway

Connect Any Verkada Device, Anywhere

Overview

The GC31 and GC31-E Cellular Gateways make it simple to deploy Verkada products anywhere with power and cell signal, including hard-to-wire locations such as parking lots, construction sites, or streetlight poles.

Simply feed the GC31 any power input and it will send both power and data to any Verkada device via PoE. Like all Verkada products, the GC31 is cloud-managed and natively integrates with other devices in our ecosystem. And with Verkada's unlimited data plan, which works out-of-the-box in many countries throughout the world, customers no longer need to work with cell carriers.

Key features

Flexible power options

Use any power input, including terminal block, barrel jack, and PoE. The gateway has two PoE outputs that provide up to 60W total.

Verkada data plan or BYO plan

Eliminate complexity with the Verkada data plan or bring your own plan. The Verkada plan offers truly unlimited data, multi-carrier redundancy, and 24/7 support.

Deploy anywhere

The GC31 comes in both indoor and outdoor versions that cover almost any environment and installation scenario, including pole, roof, wall, and tabletop.

Cloud-managed

Set up and manage the GC31 in Verkada Command from any device and any location. See all your gateways on a map, run diagnostics, and receive alerts if connectivity is lost.

Remote troubleshooting

Remotely power cycle the GC31 and any connected devices via Command. If the gateway itself is offline, it will automatically power cycle itself after 30 minutes.

Optimized data usage

The GC31 optimizes streaming, cloud backup, and other activities on downstream Verkada devices to reduce data usage and improve the viewing experience.

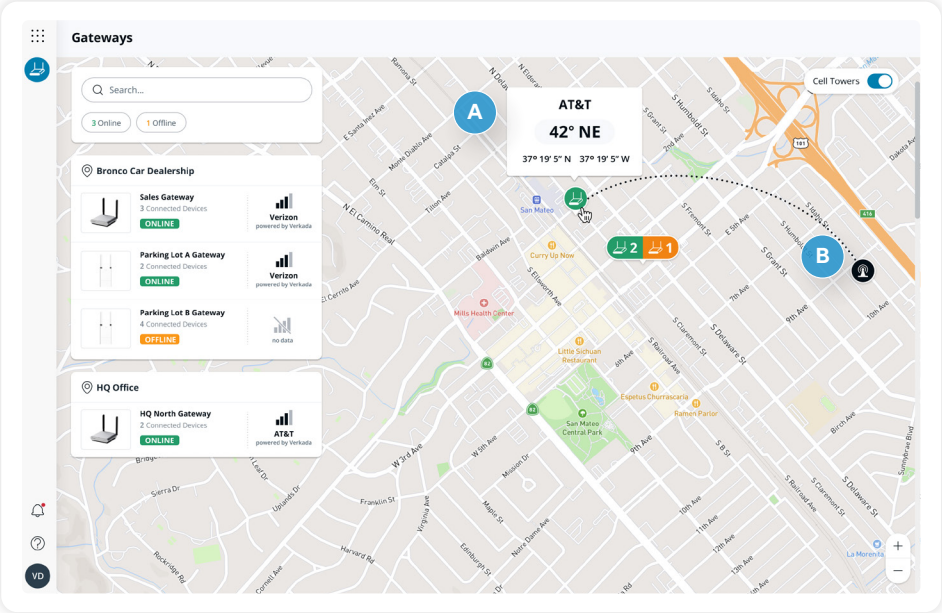
Deploy anywhere

The Verkada Cellular Gateway comes in both indoor and outdoor versions that cover a wide range of installation scenarios. The GC31-E outdoor model is IP66 rated and can be easily mounted on a pole, wall or roof. The GC31 indoor model can be wall mounted or secured on a tabletop using the Kensington lock.

Manage from anywhere

A. View the status and GPS location of your gateways

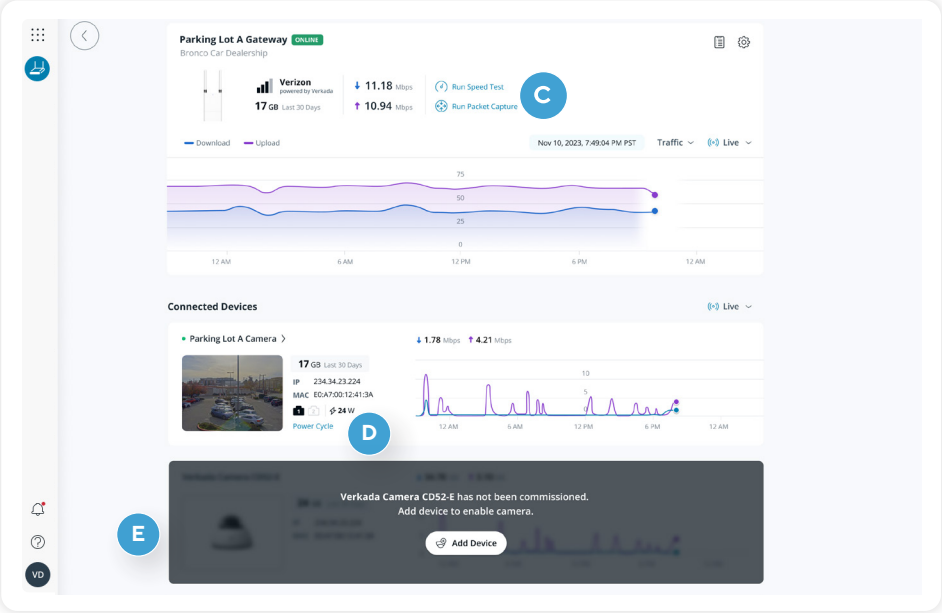
B. See which cell tower each gateway is using



C. Remotely run packet capture and speed tests

D. Remotely power cycle devices

E. Recognize connected Verkada devices and streamline setup



Verkada 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

As soon as it receives power, the GC31 will automatically connect to a carrier using the pre-inserted Verkada SIM card – it just works.

Unlimited data

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

24/7 support

Enjoy the quick and easy 24/7 customer support that you've come to expect from Verkada.

Multi-carrier redundancy

The Verkada SIM card works across major carriers, allowing the GC31 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

The base cloud license for the GC31 already includes unlimited data for Verkada non-video devices, such as access controllers or sensors. Unlimited data for Verkada video devices, such as cameras or intercoms, can be purchased through the LIC-GC-1VD add-on license. 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 GC31 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 SIM in the other slot for automatic failover. If the customer-provided SIM fails, the Verkada SIM 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.

GC31
Tech Specs

GC31 Indoor Cellular Gateway

Cellular

Connectivity	LTE cellular CAT 12	**MIMO**	2x2 DL MIMO
SIM	2 SIM slots (Nano 4FF) Dual SIM/auto SIM failover	**Bands**	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28. B29, B30, B38, B39, B40, B41, B42, B43, B48 (CBRS), B66, B71
Antennas	2 x external omni (SMA)		

Inputs and outputs

Ethernet	2 x GigE RJ45 ports (1 x LAN and 1 x WAN/LAN configurable)	**Power Output**	2 x 802.3bt PoE++ capable ports 60W total power budget
Power Input	54V DC Barrel Jack (6.5/3.0mm OD/ID) 100-240V AC/DC power adapter included (region specific)	**GNSS/GPS**	Passive GNSS (GPS, GLONASS, and Galileo)

Compliance and certifications

RF & EMC	FCC, IC, UKCA, RCM, NOM, VCCI	**Cellular**[1]	PTCRB, GCF, Verizon, T-Mobile, AT&T, FirstNet
Safety	UL/IEC 62368-1, CSA C22.2 No. 62368-1		

General

Power Consumption	9W Note: Does not include connected devices	**Weight**	0.6kg / 1.3lbs
Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LEDs**	1 status LED, 2 SIM indicator LEDs, 4 signal strength LEDs
Humidity	5-90% RH non-condensing	**Warranty**	10 years
Dimensions	Main Unit: L: 125mm / 4.9in W: 125mm / 4.9in H: 30mm / 1.2in Antenna: L: 20mm / 0.8in W: 10mm / 0.4in H: 136mm / 5.4in	**Included Accessories**	2 x SMA antennas, AC/DC power adapter and cord, mount plate, 4 x wall anchors, T10 security torx screwdriver, 4 M4 x 25mm PH2 wall screws, RJ45 port cover
Mounting Options	Wall mount or tabletop (with Kensington slot)		

1. Cellular carriers and operators throughout the world may only require telecom industry certifications such as PTCRB to operate on their network. Some carriers require additional testing and approval, beyond telecom certifications. A carrier listed in the approvals section means Verkada completed additional testing and acquired technical approval for that given carrier. Any carrier not listed may not require additional testing or approval beyond telecom industry certifications to operate on their network.

GC31 Indoor Cellular Gateway

Inputs and Outputs

GC31-E
Tech Specs

GC31-E Outdoor Cellular Gateway

Cellular

Connectivity	LTE cellular CAT 12	**MIMO**	2x2 DL MIMO
SIM	2 SIM slots (Nano 4FF) Dual SIM/auto SIM failover	**Bands**	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28. B29, B30, B38, B39, B40, B41, B42, B43, B48 (CBRS), B66, B71
Antennas	2 x external omni (N-type male)		

Inputs and outputs

Ethernet	3 x GigE RJ45 ports (2 x LAN and 1 x WAN/LAN configurable)	**Power Output**	2 x 802.3bt PoE++ capable ports 60W total power budget
Power Input	54V DC Barrel Jack (6.5/3.0mm OD/ID) IEEE 802.3bt Type 4 PoE++ 90W 12-36V DC Terminal Block	**GNSS/GPS**	Passive GNSS (GPS, GLONASS, and Galileo)

Compliance and certifications

RF & EMC	FCC, IC, UKCA, RCM, NOM, VCCI	**Cellular**[1]	PTCRB, GCF, Verizon, T-Mobile, AT&T, FirstNet
Safety	UL/IEC 62368-1, CSA C22.2 No. 62368-1	**Weather Rating**	IP66

General

Power Consumption	9W above -25°C / -13°F 19W below -25°C / -13°F **Note:** Does not include connected devices	**Weight**	1.4kg / 3.0lbs
Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LEDs**	1 status LED, 2 SIM indicator LEDs, 4 signal strength LEDs
Humidity	5-90% RH non-condensing	**Warranty**	10 years
Dimensions	Main Unit: L: 243mm / 9.6in W: 148mm / 5.9in H: 33mm / 1.3in Antenna: Ø: 25mm / 1.0in L: 179mm / 7.1in	**Included Accessories**	2 x N type antennas, mount plate, 2 x pole straps, 4 x wall anchors, 4 x wall screws, T10 security torx screwdriver, 4 x 7-9 mm cable grommets, 1 x 3-5mm cable grommet, 1 x 3-wire cable grommet
Mounting Options	Wall mount, pole mount, or mount on ACC-POE-90W-E		

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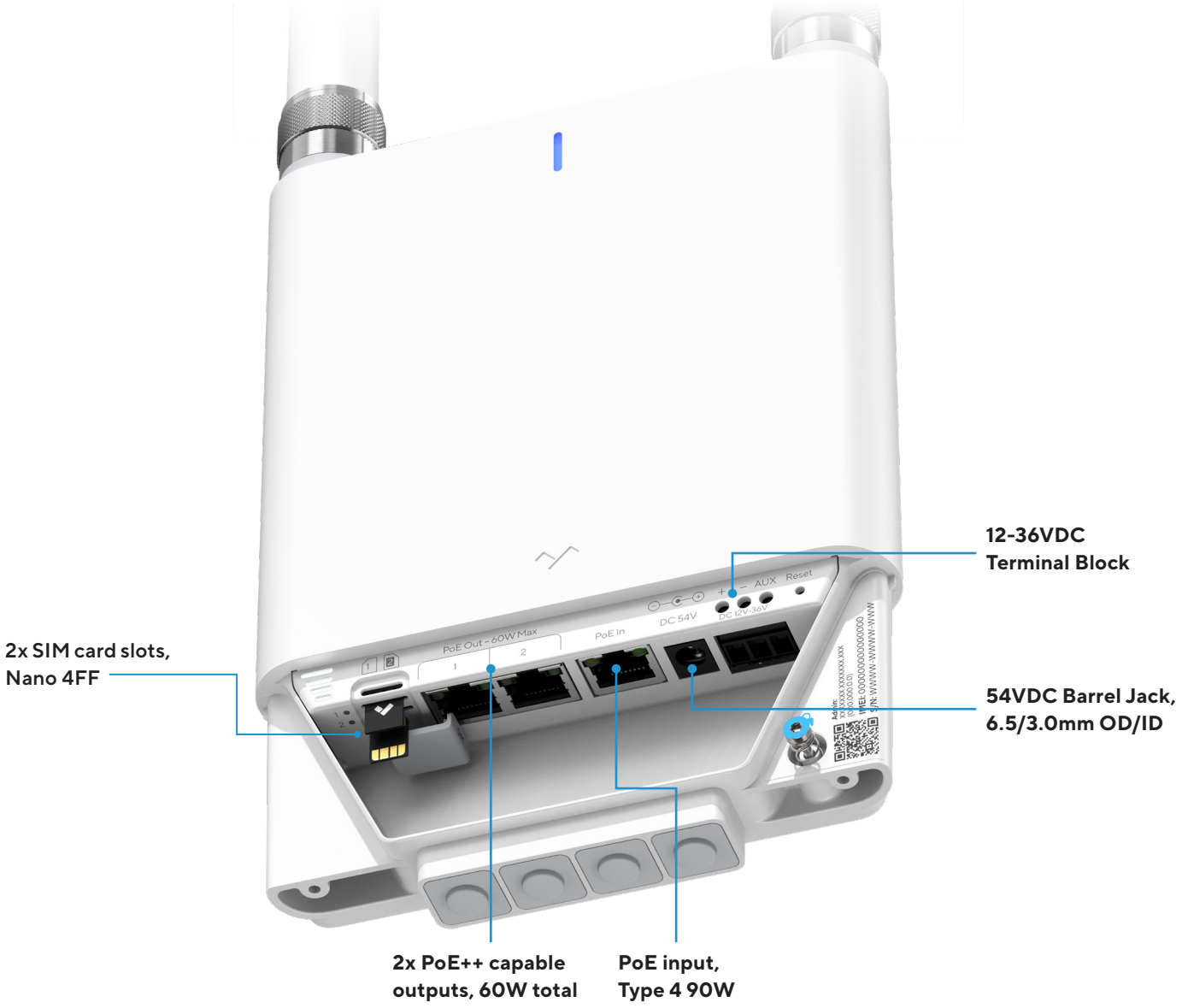
GC31-E Outdoor Cellular Gateway

Inputs and Outputs



Accessories

The GC31 Indoor Cellular Gateway comes with an AC/DC power adapter with a regionalized plug.

The GC31-E Outdoor Cellular Gateway has multiple power inputs and thus does not include power accessories. The following accessories are available from Verkada.

ACC-POE-90W-E
Outdoor 90W PoE++ Injector

Use case:
For powering the GC31-E in harsh environments. The GC31-E can be mounted directly on the injector.

Datasheet

ACC-POE-90W
90W PoE++ Injector

Use case:
For powering the GC31-E when the injector can be placed indoors or within a NEMA enclosure.

Datasheet

ACC-ADAP-54V
AC/DC Power Adapter

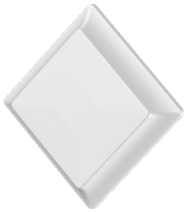
Use case:
Included with the GC31, but can be purchased for use with the GC31-E. Place the adapter indoors or within a NEMA enclosure.

Datasheet

ACCX-TAP-DC100-E
AC/DC 7-Pin Light Pole Power Tap

Use case:
Power the GC31-E by tapping into a streetlight. The power tap connects directly to AC and provides DC via PoE.

Datasheet



ACC-ANT-10
Outdoor Directional LTE Antenna

Use case:
Improves signal strength on the GC31-E when pointed toward the correct cell tower.

Datasheet

Ordering Information

Cellular Gateway

Model Number	Description	Cost (MSRP) USD
GC31-HW-AU	GC31 Cellular Gateway, Indoor, Australia Type I Plug	$899
GC31-HW-EU	GC31 Cellular Gateway, Indoor, Europe Type F Plug	$899
GC31-HW-NA	GC31 Cellular Gateway, Indoor, North America Type B Plug	$899
GC31-HW-UK	GC31 Cellular Gateway, Indoor, United Kingdom Type G Plug	$899
GC31-E-HW	GC31 Cellular Gateway, Outdoor	$1,299

Cellular Gateway License (New/Capacity Increase)

Each cellular gateway requires a Cellular Gateway License, which includes unlimited data for Verkada non-video devices.

LIC-GC-1Y-CAP	1-Year Cellular Gateway License, Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$299
LIC-GC-3Y-CAP	3-Year Cellular Gateway License, Includes Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$849
LIC-GC-5Y-CAP	5-Year Cellular Gateway License, Includes Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$1,349
LIC-GC-10Y-CAP	10-Year Cellular Gateway License, Includes Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$2,699

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

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 SIM/plan do not need these licenses.

Our regular data license (LIC-GC-1VD) includes unlimited data for one video device.

Model Number	Description	Cost (MSRP) USD
LIC-GC-1VD-1Y-CAP	1-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device[1], Capacity Increase	$999
LIC-GC-1VD-3Y-CAP	3-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device[1], Capacity Increase	$2,997
LIC-GC-1VD-5Y-CAP	5-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device[1], Capacity Increase	$4,995

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

Ordering Information

Cellular Gateway License (Renewal)

Each cellular gateway requires a Cellular Gateway License, which includes unlimited data for Verkada non-video devices.

Model Number	Description	Cost (MSRP) USD
LIC-GC-1Y-RNW	1-Year Cellular Gateway License, Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$299
LIC-GC-3Y-RNW	3-Year Cellular Gateway License, Includes Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$849
LIC-GC-5Y-RNW	5-Year Cellular Gateway License, Includes Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$1,349
LIC-GC-10Y-RNW	10-Year Cellular Gateway License, Includes Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$2,699

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 SIM/plan do not need these licenses.

Our regular data license (LIC-GC-1VD) includes unlimited data for one video device.

LIC-GC-1VD-1Y-RNW	1-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device[1], Renewal	$999
LIC-GC-1VD-3Y-RNW	3-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device[1], Renewal	$2,997
LIC-GC-1VD-5Y-RNW	5-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device[1], Renewal	$4,995

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

Ordering Information

Cellular Gateway License for Government (New/Capacity Increase)

Each cellular gateway requires a Cellular Gateway License, which includes unlimited data for Verkada non-video devices.

Model Number	Description	Cost (MSRP) USD
LIC-GC-1Y-CAP-G	1-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$449
LIC-GC-3Y-CAP-G	3-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$1,299
LIC-GC-5Y-CAP-G	5-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$1,999
LIC-GC-10Y-CAP-G	10-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Capacity Increase	$3,999

Cellular Gateway Data Plan for Government (New/Capacity Increase)

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 regular data license (LIC-GC-1VD) includes unlimited data for one video device.

Model Number	Description	Cost (MSRP) USD
LIC-GC-1VD-1Y-CAP-G	1-Year Cellular Gateway Data Plan for Government, Includes Unlimited Data for 1 Verkada Video Device[1], Capacity Increase	$999
LIC-GC-1VD-3Y-CAP-G	3-Year Cellular Gateway Data Plan for Government, Includes Unlimited Data for 1 Verkada Video Device[1], Capacity Increase	$2,997
LIC-GC-1VD-5Y-CAP-G	5-Year Cellular Gateway Data Plan for Government, Includes Unlimited Data for 1 Verkada Video Device[1], Capacity Increase	$4,995

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

Ordering Information

Cellular Gateway License for Government (Renewal)

Each cellular gateway requires a Cellular Gateway License, which includes unlimited data for Verkada non-video devices.

Model Number	Description	Cost (MSRP) USD
LIC-GC-1Y-RNW-G	1-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$449
LIC-GC-3Y-RNW-G	3-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$1,299
LIC-GC-5Y-RNW-G	5-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$1,999
LIC-GC-10Y-RNW-G	10-Year Cellular Gateway License for Government, Includes Unlimited Data for Verkada Non-Video Devices, Renewal	$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 regular data license (LIC-GC-1VD) includes unlimited data for one video device.

Model Number	Description	Cost (MSRP) USD
LIC-GC-1VD-1Y-RNW-G	1-Year Cellular Gateway Data Plan for Government, Includes Unlimited Data for 1 Verkada Video Device[1], Renewal	$999
LIC-GC-1VD-3Y-RNW-G	3-Year Cellular Gateway Data Plan for Government, Includes Unlimited Data for 1 Verkada Video Device[1], Renewal	$2,997
LIC-GC-1VD-5Y-RNW-G	5-Year Cellular Gateway Data Plan for Government, Includes Unlimited Data for 1 Verkada Video Device[1], Renewal	$4,995

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

Ordering Information

Cellular Gateway accessories

Model Number	Description	Cost (MSRP) USD
ACC-ADAP-54V-AU	AC/DC Barrel Jack Power Adapter, 54V, Indoor, Australia Type I Plug	$89
ACC-ADAP-54V-EU	AC/DC Barrel Jack Power Adapter, 54V, Indoor, Europe Type F Plug	$89
ACC-ADAP-54V-NA	AC/DC Barrel Jack Power Adapter, 54V, Indoor, North America Type B Plug	$89
ACC-ADAP-54V-UK	AC/DC Barrel Jack Power Adapter, 54V, Indoor, United Kingdom Type G Plug	$89
ACC-POE-90W-AU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Australia Type I Plug	$169
ACC-POE-90W-EU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Europe Type F Plug	$169
ACC-POE-90W-NA	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, North America Type B Plug	$169
ACC-POE-90W-UK	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, United Kingdon Type G Plug	$169
ACC-POE-90W-E-AU	90W PoE++ (802.3bt Type 4) Injector, GigE, Outdoor, Australia Type I Plug	$299
ACC-POE-90W-E-EU	90W PoE++ (802.3bt Type 4) Injector, GigE, Outdoor, Europe Type F Plug	$299
ACC-POE-90W-E-NA	90W PoE++ (802.3bt Type 4) Injector, GigE, Outdoor, North America Type B Plug	$299
ACC-POE-90W-E-UK	90W PoE++ (802.3bt Type 4) Injector, GigE, Outdoor, United Kingdom Type G Plug	$299
ACC-ANT-10	Directional LTE Antenna, Outdoor, N-Type	$399
ACCX-TAP-DC100-E	FP AC/DC 7-Pin Power Tap, 100W PoE Output, Outdoor, Model Number: FP287A-180-BEN-A	$399