

EdgePod T41™ User Manual



Green Edge Computing Corp.



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Revision History

Date	Revision Description	Revision
2024/06/28	Initial Release	A
2025/01/22	Added information to cover EdgePod V4 configurations. DC input specification changed from 12-48Vdc to 18-48Vdc.	A.2
2025/10/01	Renamed EdgePod to EdgePod T41. Added section Network Architecture.	A.3
2026/03/04	Added EdgePod T41 V5 and compliance information.	A.4

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1 Acronyms and Related documents

1.1 Acronyms

AI	Artificial Intelligence
BMC	Baseboard Management Controller
DHCP	Dynamic Host Configuration Protocol
ECA	Edge Computing Appliance
IoT	Internet of Things
IP	Internet Protocol
ML	Machine Learning
MEC	Multiaccess Edge Computing
OTS	Over the Shoulder

Table 1: Glossary

1.2 Related Documents

- UM001 (EdgeCard Server)
- UM003 (EdgeCard Switch)
- TN001 (EdgeCard Removal and Installation)
- QF001 (GECCO Warranty Policy)

2 Product summary and key features

Description: Ultra compact, rugged, fanless, Edge Computing Appliance (ECA) with pluggable EdgeCard servers.

Applications: Zero-touch computing for edge deployments, remote management, virtual machines, containers, Windows/Linux, multiaccess edge computing (MEC), IoT/AI/ML applications. Suitable for defence, aerospace, telecom, retail, infrastructure, mining, refining, process industries, smart agriculture, smart city, manufacturing, maritime, and more!

Benefits: Easy to deploy because its small size, low weight, and pluggable design eliminate wiring problems. Easy to maintain and EdgeCard swap out for upgrades and repairs.

2.1 What you will find in the box

- 1x EdgePod T41, transportable variant
- 1x Reference Sheet & Compliance Information
- 2x Lock Backup Power Cable (V3 models only, 9V battery not included)
- 2x Radial key (only if equipped with lock bypass)

2.2 Installation Instructions

The transportable variant of the EdgePod is a free-standing appliance and can be placed on any sturdy flat surface.

- The EdgePod T41 shall not be exposed to water and shall be installed in a dry location.
- The EdgePod T41 is intended for industrial and commercial use only and is not intended for residential installation.
- The EdgePod T41 must be installed and operated with a minimum separation distance of 20 cm between the antenna and any person.
- The door of the EdgePod T41 must remain closed during normal operation.
- Connections exposed behind the door of the EdgePod T41 are for service only and not intended for permanent connection.



- Carefully remove EdgePod from shipping packaging. The EdgePod shall not be lifted by the door.
- Place the EdgePod on a flat surface capable of carrying at least 36 kg (80 lbs).
- Ensure the EdgePod is oriented in such a way the heatsinks fins are vertical. Ensure air can travel freely through the heatsinks by allowing 150mm (6.0in) clearance space on the left, right and top sides of the EdgePod.
- Reserve enough space in the front of the EdgePod to allow for opening the door, if applicable.

The EdgePod shall be powered through the DC connector on the back panel. Refer to the Technical Specifications section for more detail.



It is recommended to plug in the DC jack before energizing the cable. If an AC/DC adapter is used, the proper sequence to power up the EdgePod is to plug in the DC jack first, then plug the AC cord in the wall outlet.

The following power adapters are recommended by GECCO. The EdgePod T41 consumes 300 W maximum. Recommended power adapters are rated higher to ensure sufficient power margin.

Table 2. Recommended power adapters.

EdgePod Generation	AC/DC Adapter	Part Number
EdgePod T41 V3/V4 (7.4*5.0mm DC jack)	Genuine Dell 19V 330 W AC/DC Adapter	XM3C3
EdgePod T41 V5 (6-pin Molex connector)	Meanwell 24V 360 W AC/DC (Class I) Adapter	GST360A24-C6P

2.3 Technical Specifications

Size (DxWxH)	300mm x 365mm x 390mm (11.8in x 14.4in x 15.4in)
Weight	27 kg (60 lbs)
Power	18-48Vdc, max. 300W ¹
Cooling	Passive (no internal fan)
Connectivity – front	<p>Direct access to front panel of EdgeCards. Please refer to EdgeCard Server and EdgeCard Switch User Manuals for more information.</p> <p>Access is secured behind a door if the EdgePod is ordered with a door option.</p>
Connectivity – rear	<p>2x 1Gb Uplink (1000BASE-T) ²</p> <p>4x 2.5Gb Ethernet (2500BASE-T) ^{3,4}</p> <p>4x 1Gb BMC Ethernet (1000BASE-T) ³</p> <p>4x USB 2.0 ^{3,5}</p> <p>1x 1Gb OTS Camera Ethernet (1000BASE-T)</p> <p>1x Lock Bypass (optional)</p> <p>1x Main Power Supply</p> <p>1x Lock Backup Power Supply (9Vdc)</p>

2.4 Regulatory Compliance

The EdgePod T41 is in conformity with applicable regulatory requirements, including:

- FCC regulations (United States)
- Innovation, Science and Economic Development Canada (ISED) regulations
- Directive 2014/53/EU (Radio Equipment Directive)

The product bears the CE marking in accordance with Directive 2014/53/EU.

This product contains a radio transmitter module when equipped with the optional digital ID management and access system.

FCC ID: 2AMD4UTO-NBL-52A

IC: 27695-UTONBL52A

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

¹ Power Consumption depends on EdgeCard configuration.

² Only available on variants with EdgeCard Switch. Second port only available on EdgePod T41 V5.

³ One port for each server slot, only active when an EdgeCard Server is installed in the slot.

⁴ Currently unavailable for EU markets.

⁵ USB ports on the rear panel are only available on the EdgePod T41 V5.

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

ISED Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Déclaration de conformité d'ISED

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Statement

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. The equipment must be installed and operated with a minimum distance of 20 cm between the radiator and any person.

Déclaration d'exposition aux radiofréquences

Cet équipement est conforme aux limites d'exposition aux rayonnements d'Innovation, Sciences et Développement économique Canada établies pour un environnement non contrôlé. L'équipement doit être installé et utilisé en respectant une distance minimale de 20 cm entre la source de rayonnement et toute personne.

EU Declaration of Conformity (RED 2014/53/EU)

Hereby, Green Edge Computing Corp. declares that the radio equipment type **EdgePod T41** is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available on request.

Radio Information (RED Article 10(8))

- Frequency band of operation: 2402–2480 MHz
- Maximum transmitted power: –2.41 dBm

3 Accessing the EdgePod

3.1 Front

EdgeCard connectors are accessible and LED indicators are visible from the front of the EdgePod when the EdgePod door is open. Please refer to the EdgeCard Server User Manual [UM001] and the EdgeCard Switch User Manual [UM003] for detailed information and user instructions.

When the EdgePod is equipped with the optional Digital ID management and access control system, the only way to open the door and gain access is through the Teleporte mobile app provided by Sera4.



Figure 1. Teleporte App icon.

1. To start, download the Teleporte app on your Android or iOS device.



2. After opening the mobile application, choose sign in option “Password”, and sign in using the following default credentials:
 - Email/Username: teleporte@g3cco.com
 - Password: Access2EdgePod
3. Hold your mobile device within two meters of the EdgePod, and the lock controller icon will appear on the Teleporte app screen. If multiple locks show up, because multiple EdgePods are in range, please refer to the lock hardware ID printed on the label on the rear of the EdgePod.
4. Tap on the lock icon to open the lock.

Note that the EdgePod must be powered on to operate the lock controller. If no main power is available, use the Lock Backup Power connector to provide power (requires 9V battery). For further instructions and troubleshooting tips, please visit:

<https://cx.sera4.com/onboarding#teleporte-mobile-application>



The default credentials are provided for demonstration purposes and shall only be used temporarily. Do not make changes to this account. To obtain full access to the Digital ID management and access control system, please contact support@g3cco.com with the serial number of the EdgePod and the Lock ID. Both can be found on the label on the back of the EdgePod T41.

3.2 Rear

The rear panel is freely accessible on the transportable variant of the EdgePod T41. Configuration of the rear panel may vary, and custom configurations are beyond the scope of this document.

Figure 2 shows the default panel for an EdgePod V3 without EdgeCard Switch. Figure 3 shows the rear panel of the EdgePod V4 without EdgeCard Switch and with optional lock bypass.

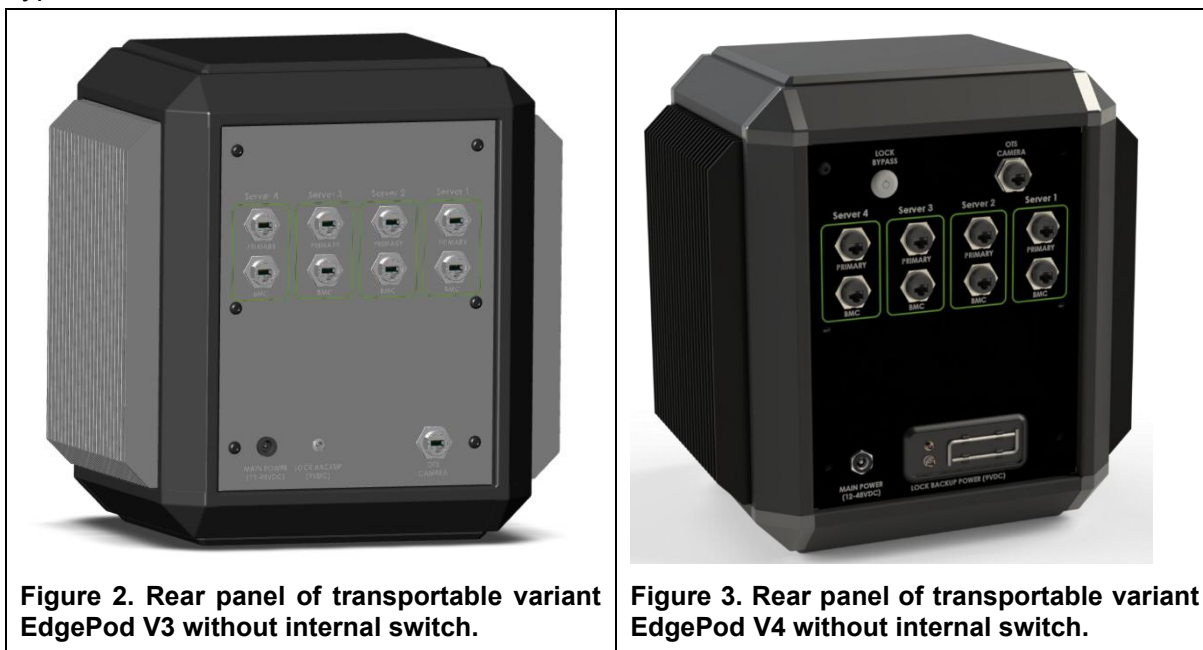


Figure 2. Rear panel of transportable variant EdgePod V3 without internal switch.

Figure 3. Rear panel of transportable variant EdgePod V4 without internal switch.

Table 3. EdgePod T41 rear connectivity

Port Section / Label	Type	Description
EdgePod Uplink		
PORT A	1000BASE-T - RJ45	Available on configurations with EdgeCard Switch. This port provides the uplink to/from the EdgeCard Switch.
PORT B	N/A	Can be made available on EdgePod T41 V5 configurations with EdgeCard Switch. This port provides a second uplink to/from the EdgeCard Switch. On older EdgePod generations or configurations with EdgeCard Switch, this port is unavailable.
EdgePod Security		
LOCK BYPASS	Tubular pin tumbler lock	Keyed lock to open the door and bypass Digital ID management. LOCK BACKUP POWER is required to operate the lock bypass.
OTS CAMERA	1000BASE-T - RJ45	Dedicated Ethernet port to the over-the-shoulder IP camera. Located in the lower

		right corner of the rear panel (V3) or the upper right corner of the rear panel (V4).
Server 1 – 4		
PRIMARY or ETH	2.5GBASE-T - RJ45	Ethernet port to a dedicated NIC connected to the EdgeCard Server.
BMC	1000BASE-T - RJ45	Ethernet port to the BMC of the EdgeCard Server.
USB (EdgePod T41 V5 only)	USB 2.0 – Type A	USB port to the EdgeCard Server.
Power		
LOCK BACKUP POWER	9Vdc 9V battery clip ⁶	Emergency power to operate the Digital ID management controller and/or lock bypass.
MAIN POWER (EdgePod T41 V3/V4)	18-48Vdc 7.4*5.0mm female DC jack	Main power to operate EdgePod and the Digital ID management.
MAIN POWER (EdgePod T41 V5)	18-48Vdc 6-pin Molex	Main power to operate EdgePod and the Digital ID management.

Each server slot has its own Ethernet port labelled “PRIMARY” or “ETH” and its own maintenance port labelled “BMC”. These ports are only active if an EdgeCard Server is installed in the slot. For more information on the maintenance port and the use of the Baseboard Management Controller software, please refer to the EdgeCard Server User Manual [UM001].

An additional Ethernet port is available to access the OTS Camera. Please refer to section 4 for more information. The location of the OTS Camera connector varies depending on the model.

All Ethernet devices in the EdgePod are configured to dynamically receive an IP address from the network. Variants without internal switch require an external switch and a DHCP server (or similar service). Generally, a DHCP server can show a list of devices on the network and their IP addresses. If this is unavailable, an application such as [Advanced IP Scanner](#) could be used to scan the network and find Ethernet devices. Install and run this application on a separate computer attached to the same network as the EdgePod.

4 Network Architecture

Figure 4 shows the network architecture of the EdgePod T41 in combination with an EdgeCard Switch GVX1-P1. The EdgeCard Switch establishes a 10G network between all EdgeCard Servers and provides a single 1G uplink port.

⁶ Older versions of the EdgePod T41 (V3) come with a 5.5*2.1mm female DC jack for lock backup power. A short cable is provided with a 9V battery clip.

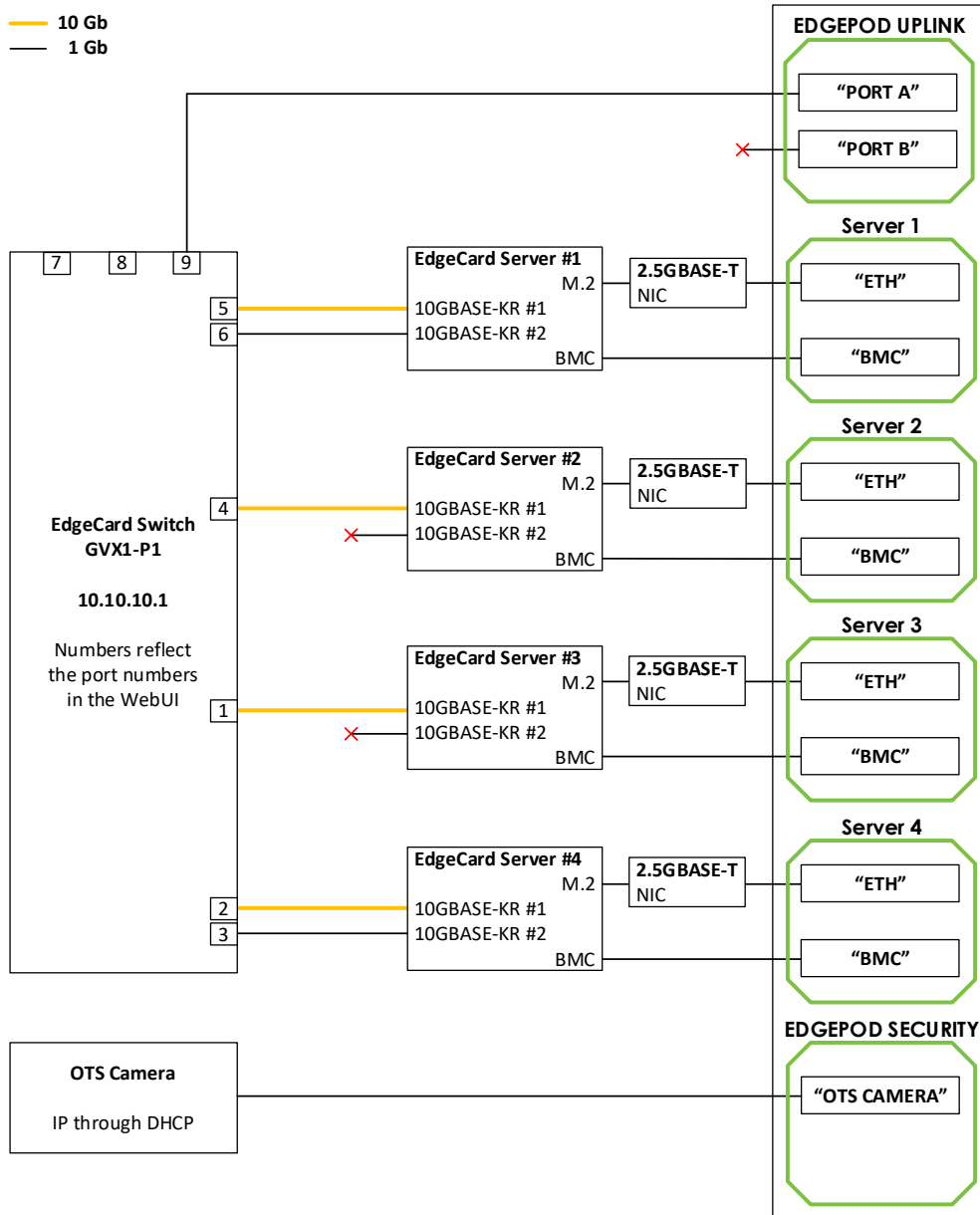


Figure 4. Network architecture of EdgePod T41

BMC traffic is not routed through the EdgeCard Switch. The server’s BMC can only be accessed through their dedicated BMC ports.

If no EdgeCard Switch is present, the uplink port on the rear panel is not functional or may not be present. With or without EdgeCard Switch the EdgeCard Servers are accessible through their dedicated Ethernet ports on the rear panel, labelled as ETH or PRIMARY.

5 Using the OTS Camera

The OTS Camera is an IP Network Camera located in the interior of the EdgePod door. When the door is opened fully, the camera points to the front panel of the EdgePod showing the front connectors and indicators on the EdgeCards for remote, over-the-shoulder, technical support.

The OTS Camera has a built-in web-interface, accessible through a regular internet browser using the camera’s IP address (see section 3.2). The credentials to access the camera are as follows, and can be changed through the web-interface:

- Username: admin

- Password: admin

Alternatively, the camera can be added as an IP camera in 3rd party software. The camera is Onvif 17.06 compatible.



Default credentials are provided for initial setup only. They must be changed immediately after first login to prevent unauthorized access.



The OTS Camera is always on, even when the door is closed, and may be warm to the touch. This is normal.

6 Maintenance

The EdgePod shall not be disassembled or modified in any way other than operating the door, remove covers from empty slots, and install and/or remove EdgeCards.

For the removal and installation of EdgeCards, please refer to document TN001 (EdgeCard Removal and Installation).

7 Warranty

GECCO products carry a limited warranty. Please refer to the GECCO Warranty Policy [QF001] and your contracted terms and conditions of sale.