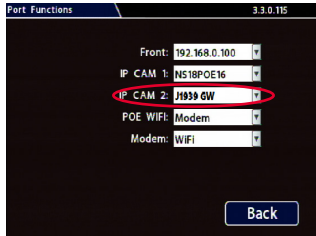## Configuring the Recorder

1. Power up the recorder with a monitor and USB mouse connected, then right-click in Live view and select **Configuration**.

2. Select **Network ➜ Port Functions** to open the Port Functions tab.

3. Use the **IP CAM 2** drop-down menu to select **J1939 GW**.

4. Click, **Back** to save settings, then click **Back** again to return to the Configuration menu.

> 💡 **Recorder Port Configuration**
>
> The recorder may require a firmware update to enable support for the J1939 Gateway. Location and option text may change.
>
> Consult the latest recorder documentation for most up-to-date information.

Service & Support

If the gateway needs to be returned for service, please contact the Safe Fleet technical support team, provide the part and/or serial # of your unit, and ask for a **Return Merchandise Authorization (RMA)** number.

An **RMA #** allows the support team to better track your product when it comes in for service. Please show the RMA # on the **outside** of the package.

ANY PRODUCT SENT WITHOUT AN RMA # MAY BE REFUSED!

Documentation and Warranty

Additional copies of this guide along with other documentation and product warranty can be found on the Safe Fleet Community website. Scan the QR code on the right with your mobile device, or visit : https://community.safefleet.net.

If you require access credentials, please contact Technical Support.

Technical Support

Phone: 1.844.899.7366
Email: PTsupport@safefleet.net
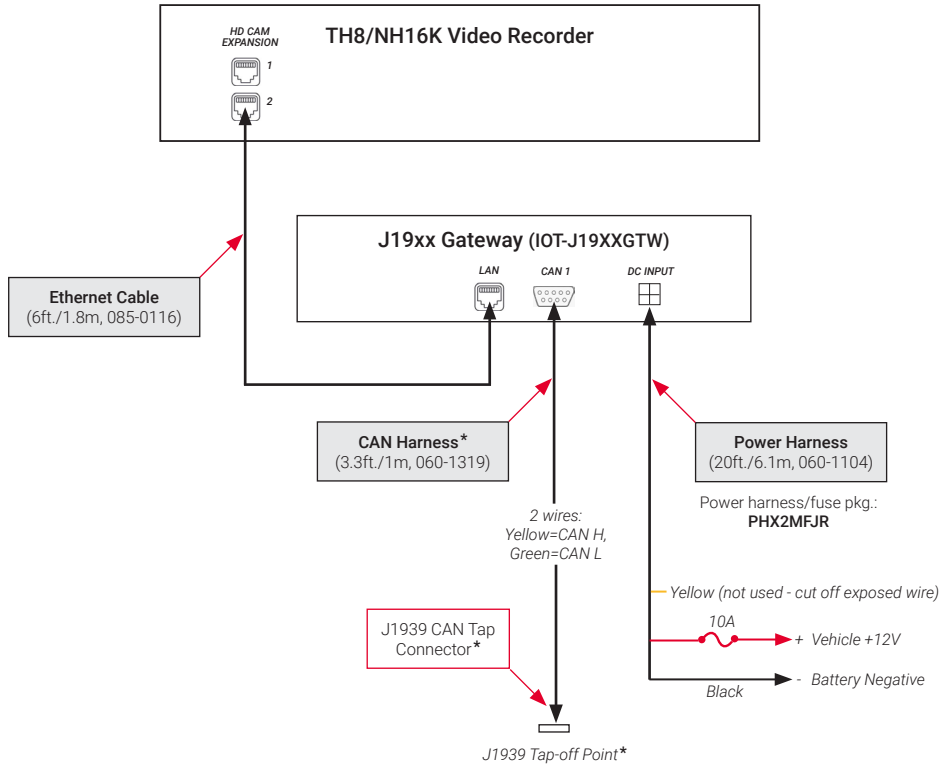
Specifications

Power Consumption	Typical (*all inputs off*): 150mA
	Each output rated 1.0A max.
Operating Voltage Range	19.0 to 36.0 VDC
Operating Temperature Range	-40 to 185°F (-40 to 85°C)
Enclosure Size	(W x L x H) 3.6" x 8.4" x 1.25" 9.4cm x 21.4cm x 3.2cm
Weight	1.05 lbs. (0.48 kg)

The J19xx Gateway forwards messages between networks utilizing similar protocols. When used with proprietary provisioning software, the gateway can transfer any message from a CAN-based vehicle data network to a JavaScript Object Notation (JSON) encoded Ethernet message.

Information is subject to change without notice. For the latest product details and installation instructions, please visit the Safe Fleet Community at: https://community.safefleet.net.

Kit Contents

Check the package and contents for visible damage. If any components are damaged or missing, contact the Safe Fleet Service team and request an RMA (Return Material Authorization).

IOT-J19XXGTW-1

- J1939/J1979 Gateway (IOT-J19XXGTW)
- Power Harness - 20ft./6.1m (Part #: 060-1104)
- Fuse, 10A, 32V (Part #: 420-0006)
- Fuse Holder (Part #: 470-0012G)
- Connector, Butt-splice (Part #: 444-0071G)
- CAN Harness, 3.3ft./1m (Part #: 060-1319) *****
- Ethernet Cable - CAT5e, 6ft./1.8m (Part #: 085-0116)

* *Nova Bus Installations*: J1939 CAN Tap connector is Deutsch DT06-3S

Installation Environment

> ℹ️ **Mounting location: cable lengths**
>
> The gateway mounting location must allow for the following cable runs:
>
> - Gateway to J1939 tap-off point: 3.3 ft./1m (CAN tap-off cable).
> - Gateway to recorder: 6 ft./1.8m (CAT5e Ethernet)
>
> For more information, see the Installation Diagram on page 2.

- Select a dry location inside the vehicle, away from water, moisture or excessive heat sources..
- Ensure the status LEDs remain visible (for details, see "Mounting the Module" on page 3).
- Install electrical wiring carefully. This should be done by qualified service personnel.
- Route wiring and cables away from sharp edges that might damage insulation. Avoid sharp bends in cables.

Installation Diagram

TH8/NH16K Video Recorder

HD CAM EXPANSION
1
2

Ethernet Cable
(6ft./1.8m, 085-0116)

J19xx Gateway (IOT-J19XXGTW)

LAN   CAN 1   DC INPUT

CAN Harness*
(3.3ft./1m, 060-1319)

Power Harness
(20ft./6.1m, 060-1104)

Power harness/fuse pkg.:
PHX2MFJR

2 wires:
Yellow=CAN H,
Green=CAN L

Yellow (not used - cut off exposed wire)

10A

+ Vehicle +12V

J1939 CAN Tap
Connector*

Black

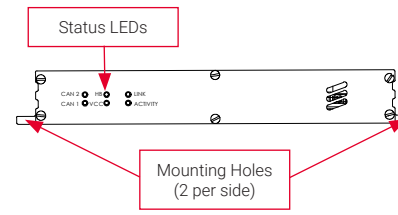- Battery Negative

J1939 Tap-off Point*

The CAN Harness, J1939 tap-off point and CAN tap connector are assigned by the OEM.

For Nova Bus Installations: J1939 CAN Tap connector is Deutsch DT06-3S.

Mounting the Gateway

1. Follow the installation requirements on the front page to select a mounting location.

   - Verify cable run lengths to the J1939 tap-off point and the recorder, as shown in the Installation Diagram.

   - Ensure front panel status LEDs remain visible.

   Status LEDs

   CAN 2   HB   LINK
   CAN 1   VCC   ACTIVITY

   Mounting Holes
   (2 per side)

2. Secure the device to the mounting surface.

   - *Mounting screws are not supplied*.

Wiring the Gateway

1. Connect the Ethernet cable (085-116) from the gateway's **LAN** port to the recorder's **HD CAM EXPANSION 2** port.

2. Connect the CAN Harness (060-1319):

   a. Plug the DB9 connector into the gateway's **CAN 1** port.

   b. Plug the J1939 CAN Tap Connector into the assigned CAN Tap-off point.*

3. Connect the Power Harness (060-1104):

   a. Plug the 2x2 Mini-Fit Jr. connector into the gateway's **DC INPUT** port.

   b. Connect the red power wire to the 10A fuse holder using the supplied butt splice connector.

   c. Insert the fuse, and wire the fuse holder to 12V vehicle power.

   d. Connect the black wire to battery negative.

   e. Cut off the exposed yellow flywire.

Status Indicators

LED	Indication
CAN1/CAN2	Flashing (3 x on/off per second) – baud rate 250 Kb/s Flashing (4 x on/off per second) – baud rate 500 Kb/s
HB (Heartbeat)	Flashing ($^1/_2$ sec. on/off) – normal operation Off – not operational
VCC	On – powered up Off – powered down
LINK	On – Ethernet link (connected) Off – no Ethernet link (disconnected)
ACTIVITY	Flashing – Ethernet traffic detected Off – no Ethernet traffic

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