TOUGHBOOK
Vehicle Solutions

From Design to Deployment:
Tailored Mounting and Connectivity

Every business has unique vehicle integration needs. This eBook explores our full suite of vehicle solutions that are designed to enhance safety, connectivity, efficiency, and productivity of your workforce – wherever the job takes them.

Driving In-Vehicle Workforce Efficiency

Fleet vehicles are no longer just modes of transport, but mobile offices that play an essential role in ensuring your workforce remains productive whilst on the move.

Mobile devices play a crucial role in supporting a wide range of field specialists — from first responders navigating to emergencies, to utilities workers maintaining national infrastructure, and warehouse staff using vehicles like forklifts to manage logistics.

Any devices used by field teams must be able withstand the physical challenges of the environment, and seamlessly integrate with vehicles and other IT applications:

Connectivity and Information Access
Field teams need uninterrupted, secure access to important systems and information, even from remote locations.

Power and Usability
Outdoor use and gloved operation of devices are common, while long shifts demand sustained battery life and charging.

Durability and Safety
Devices must withstand the rigours of vehicle operation and not become potential hazards while in motion.

Cabin Space and Installation Regulations
Use of devices must adhere to compliance standards and efficiently utilise cabin and dashboard space.

This guide showcases how Panasonic TOUGHBOOK supports vehicle-based operations and helps fleet teams drive greater workforce efficiency through our comprehensive range of rugged devices and integrated solutions.

Vehicle Design Consultancy

Connected Vehicle powered by Ericsson

Screen Mirroring

Forklift Solutions

Vehicle Design Consultancy

With many mobile workers spending much of their time in a vehicle, it's important to prioritise workplace safety by ensuring the user's device has a safe and effective docking solution.
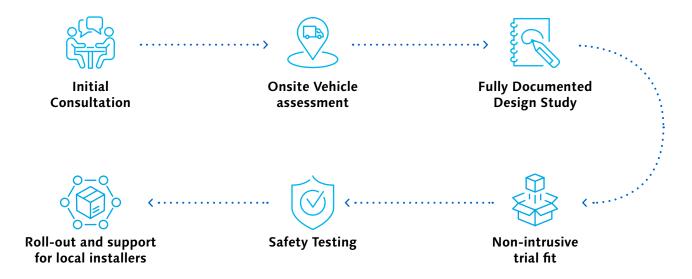
Integrating mobile technology into your vehicles presents a range of complex and unique challenges. Whether dash mounted, front mounted, rear mounted, or discreetly hidden, you need to navigate diverse vehicle landscapes, regulatory requirements and user safety.

Enable Faster, More Effective work with Bespoke Docking Solutions.

The TOUGHBOOK Vehicle Design Consultancy team offers end-to-end vehicle integration design services, including custom bracketry and installation instructions. We consider regulatory compliance, safety protocols, operational nuances, and device suitability, to ensure seamless integration that's tailored to your needs.

We take a consultative approach, coupled with our industry-leading capabilities, to ensure a seamless integration experience and a tailored solution that prioritises safety, efficiency, and reliability from conception to execution.

Initial Consultation → **Onsite Vehicle assessment** → **Fully Documented Design Study**

Roll-out and support for local installers ← **Safety Testing** ← **Non-intrusive trial fit**

Connected Vehicle powered by Ericsson

In today's connected world, industries demand secure 4G LTE and 5G at the edge. From fire engines to forklifts, fleet vehicles have transformed into digital workstations that must provide reliable access to essential business applications, secure databases, and a range of telecommunication capabilities – often in remote locations or areas prone to connectivity interruptions.

Driving Innovation in Vehicle Connectivity

TOUGHBOOK Connected Vehicle solutions utilise Ericsson's 4G LTE and 5G wireless routers and adapters to support a robust connectivity solution tailored specifically for your business. Our Connected Vehicle solutions unleash the potential of mobile broadband, enabling field-based organisations to seamlessly connect vehicles to critical applications and the cloud, regardless of their location.

4G/5G WiFi Bubble

Application Traffic Steering

Connectivity Mapping

Zero Trust Network

With decades of experience deploying mobile technology into vehicles, we offer tailored support and guidance, ensuring seamless integration with your fleet assets.

Unmatched Reliability
Purpose-built solutions withstand the rigours of vehicle environments and ensure continuous connectivity at the edge.

Visibility and Control
NetCloud Manager provides a comprehensive suite of tools to manage, monitor, and optimise router usage to maximise connectivity and operational efficiency.

Specialised Technology
Ericsson routers are specifically engineered for vehicle use, offering unparalleled reliability and performance in the most demanding of environments.

Connectivity you can Count on

Firewall Throughput: 940 Mbps

WAN Connectivity: 4G Cat 11 or 18, GbE

LAN Connectivity: Wi-Fi 5, GbE

Management: NetCloud

Screen Mirroring

With dashboard space shrinking due to ever-larger infotainment screens and tightening regulations on in-vehicle device use, what's the next step for seamlessly integrating mobile devices in vehicles?

Seamless Integration for Communication, Vehicle Controls, and Applications

Panasonic TOUGHBOOK, combined with **VNC Automotive's Cobalt Cube®**, offers a powerful, compact solution: **Screen Mirroring**.

By efficiently mirroring critical information and interfaces from a connected TOUGHBOOK device onto the vehicle's built-in display, mobile teams can receive and respond to real-time updates while reducing cabin clutter and enhancing overall safety.

Improved Efficiency

Streamline the management of work orders, navigation, and communication.

Centralised Control

Integrates with other vehicle systems and controls to offer a unified, console-style interface.

Reduced Downtime

Panasonic's full installation and ongoing support, keeps your team running when it matters most.

Cost-Effective Solution

Utilises existing vehicle infrastructure, eliminating the need for extra screens or docks.

Ideal for emergency services, and roadside teams who need real-time data on the go. Panasonic offers expert installation and comprehensive support services, ensuring unmatched reliability for up to 5 years—perfectly aligned with the lifespan of fleet vehicles.

Seamless Integration
Android Auto-based mirroring, compatible with any vehicle that supports Android Auto.

Remote Update
Deploy updates to the Cobalt Cube via the TOUGHBOOK device's data connection, ensuring consistent functionality.

Centralised Control
Cobalt Cube enables secure integration with vehicle systems like light controls, sirens, radios, and offering a unified console-style interface.

Forklift Solutions

The layout of warehouses and positioning of static terminals and workstations can create bottlenecks, increase travel time, and reduce productivity.

Mobile devices that allow forklift operators to access and update information on the move can improve the efficiency of picking routes, however, there are several challenges when it comes to integrating devices on open cabin vehicles with moving arms and hydraulics.

Custom Vehicle Docks and Mounts for Mobile productivity

From conception to installation and beyond, our experts will work with you every step of the way to design the perfect docking solution to meet your business requirements.

We provide off the shelf bracketry for fixing to the sidebar, overhead bar, windscreen, or another position or custom bracketry can be designed by the ProServices Solution Engineering Team.

Our Forklift Mounting Solutions

Humidity, vibration, shock, and temperature tested

Compliant with health and safety legislation

Easily transferable between vehicles

Engineered to optimise wireless connectivity

Compatible with existing technology

Mountable in multiple positions

Complete Solutions for Your Warehouse

We can also provide a wide range of forklift specific accessories to further tailor the whole solution to your business needs.

Mounting kits and brackets

Isolated power adaptors

Accessories and peripherals

Blanking software

Docks

Ergonomically designed and rigorously tested, our fully rugged docking solutions perfectly complement our rugged TOUGHBOOK devices.

33 Tablet Dock
(Havis)
Part no.: PCPE-HAV3305/06

Ports
- 16V DC-in
- LAN x 2
- VGA
- HDMI
- Serial
- USB 3.0 x 2
- USB 2.0 x 4
- Dual antenna pass-through (optional)

Dimensions
314.4 x 291.5 x 88.9 mm

Weight
1.125 kg

All configurations supported

33 Tablet Dock
(Gamber-Johnson)
Part no.: PCPE-GJ33V01/02/03

Ports
- 16V DC-in
- LAN x 2
- VGA
- HDMI
- Serial
- USB 3.0 x 2
- USB 2.0 x 4
- Dual antenna pass-through (optional)

Dimensions
337 x 318 x 114mm

Weight
1.88kg

All configurations supported

33 Trimline Tablet Dock
(Gamber-Johnson)
Part no.: PCPE-GJ33V09/10

Ports
- 16V DC-in
- LAN x 2
- VGA
- HDMI
- Serial
- USB 3.0 x 2
- USB 2.0 x 4
- Dual antenna pass-through (optional)

Dimensions
314 x 274 x 76 mm

Weight
2.7 kg

Supports 33 tablet without large battery, hand straps or additional gadgets

G1 & G2 Dock
(Gamber-Johnson)
Part no.: PCPE-GJG1V01/02/05

Ports
- DC-in
- LAN
- VGA
- HDMI
- Serial
- USB 3.0 x 2
- Dual antenna pass-through (optional)

Dimensions
285 x 251 x 97 mm

Weight
1.13 kg

All configurations supported

G1 & G2 Dock
(Havis)
Part no.: PCPE-HAVG103/04

Ports
- DC-in
- LAN
- VGA
- HDMI
- Serial
- USB 3.0 x 2
- Dual antenna pass-through (optional)

Dimensions
255 x 289 x 111 mm

Weight
1 kg

All configurations supported

G1 & G2 Slim Dock
(Gamber-Johnson)
Part no.: PCPE-GJG1SD1/2/3

Ports
- DC-in
- LAN
- VGA
- HDMI
- Serial
- USB 3.0 x 2
- Dual antenna pass-though (optional)

Dimensions
285 x 237 x 65 mm (97mm inc. lock)

Weight
1.2 kg

Compatible with G1 and G2 with small corner guards only

From Design to Deployment:

Tailored Vehicle Connectivity and Mounting Solutions

From emergency response and field services to logistics and warehouse operations, Panasonic TOUGHBOOK and our partners deliver rugged, reliable, and seamlessly integrated solutions to keep your teams connected, productive, and safe.

With our industry-leading vehicle design consultancy, connected vehicle solutions, screen mirroring technology, and forklift mounting solutions, we help you:

Ensure uninterrupted connectivity with enterprise-grade 4G/5G networking

Maximise safety, efficiency, and compliance with tailored in-vehicle designs

Simplify operations with intuitive screen mirroring and centralised control

Deploy rugged, purpose-built solutions designed for the toughest environments

GAMBER JOHNSON   HAVIS   ERICSSON   LIND

PMT precision mounting technologies   VNC Automotive

Ready to Transform Your Fleet?

Get in touch today to discuss how TOUGHBOOK can help you with seamless, high-performance integrations, and build the ultimate mobile workspace.

Contact Us

Panasonic CONNECT

TOUGHBOOK