



## THE CHALLENGE: FULFILLING THE TECHNICAL REQUIREMENTS OF THE ELD MANDATE

The Federal Motor Carrier Safety Administration (FMCSA)'s Electronic Logging Device (ELD) Mandate will go into effect on December 18, 2017. On that day, any driver that is required to prepare hours of service (HOS) records of duty status (RODS) will have to begin logging hours using an ELD device or face violations by inspectors and law enforcement officers.

The ELD can't just be any device. The FMCSA has developed a set of technical specifications the fleets must follow in order to be in compliance with the ELD Mandate once it goes into effect.

Keep in mind that adding an ELD will take time to implement, and drivers and fleet personnel will have to be trained to use the equipment.

It is important to note that the FMCSA **will not** postpone or rollback the date of implementation of the ELD Mandate. If you haven't implemented an ELD by December 18, 2017, you will be in violation of the provisions of the ELD Mandate—and will likely be cited and have your vehicles and drivers removed from service. If you haven't moved forward with implementing an ELD into your fleet, time is running out!

See the next page for a rugged solution to the ELD Mandate. ►

### ON THE HARDWARE SIDE OF THE TECHNICAL SPECIFICATIONS, THE ELD MANDATE HAS FOUR KEY REQUIREMENTS:

- 1 CONNECTIVITY:** ELD devices need to have Bluetooth or USB2.0 or telematics transfer capability. This is so law enforcement is always able to receive HOS data during a roadside inspection.
- 2 PHYSICAL DISPLAY OF DATA:** If law enforcement personnel or roadside inspectors request HOS data, a driver must be able to provide either a display or a printout of the requested data in the proper record of duty status (RODS) format. If a driver can't transfer data or show a physical display of data, he or she will likely be cited.
- 3 MALFUNCTION:** If the device malfunctions, a driver must provide written notice of the malfunction to fleet personnel within 24 hours, and reconstruct the RODS.
- 4 OUT OF COMPLIANCE DEVICE:** If a device is declared out of compliance, the fleet will have just eight days to either correct the infraction or implement a device that is in compliance.

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## B2 SPECS AT A GLANCE:

- **Durability:** MIL-STD-810G, 5-foot drops, and all-weather IP65 dust and water resistant design
- **Hardware & Software:** Android-powered tablet with software encryption for enterprise-grade security and management— Intel Atom x5-Z8550 processor (2M Cache, 1.44 GHz up to 2.4 GHz)
- **Display:** 7-inch, 500 nit daylight-readable screen with 10-point capacitive touch
- **Interface & Expansion:** USB 3.0 and one USB 3.1 Type C (only on some configurations), front and rear cameras, optional SmartCard, NFC, magnetic stripe and barcode readers
- **Wireless:** Wi-Fi with GPS, Bluetooth® 4.2 and Optional 4G LTE Mobile Broadband with GPS
- **Weight:** 1.2 lbs. (Average value. May differ depending on models and options)
- **Power:** Standard 7-hour with optional 14-hour long-life battery and hot-swap battery available
- **Warranty:** 3-year warranty with business-class support

The full FZ-B2 specs are available at [ftp://ftp.panasonic.com/computer/fzb2/tzb2\\_en\\_specsheet.pdf](ftp://ftp.panasonic.com/computer/fzb2/tzb2_en_specsheet.pdf)



## N1 SPECS AT A GLANCE:

- **Durability:** MIL-STD-810G, IP65 (high-pressure jet spray) and IP67 (submersible up to 3.3 feet for 30 minutes); 6-foot drop-resistant and tumble tested
- **Hardware & Software:** Qualcomm® MSM8974AB 2.3GHz Quad Core, Android 5.1.1 (Lollipop)
- **Display:** 4.7-inch high definition 1280 x 720 sunlight-viewable display, 10-point capacitive multi-touch with rain sensing and glove touch mode, optional passive stylus
- **Interface & Expansion:** Angled 1D/2D barcode reader; micro-SDXC, micro-USB 2.0; user definable buttons (x5), integrated microphones (x3) with noise suppression and echo cancellation, dual loud speakers (up to 100 db), 5MP HD front facing web cam, 8MP HD rear camera with LED light
- **Wireless:** Wi-Fi 802.11 a/b/g/n/ac; 4G LTE, HSP+, UMTS, EDGE, GPRS, CDMA 1x, EVDO Rev.A; (Both AT&T and Verizon: Voice and 4G LTE data certified); dual SIM; GPS; Bluetooth; and NFC
- **Weight:** Approx. 0.61 lbs.
- **Power:** Quick charging 3200 mAh Li-ION standard battery pack, and optional 6400 mAh long-life battery pack; warm-swap capability
- **Warranty:** 3-year limited warranty, parts and labor

The full FZ-N1 specs are available at [ftp://ftp.panasonic.com/computer/fzn1/tzn1\\_specsheet.pdf](ftp://ftp.panasonic.com/computer/fzn1/tzn1_specsheet.pdf)

## THE EQUIPMENT SOLUTION: RUGGED TABLET DEVICES

The Federal Motor Carrier Safety Administration (FMCSA) allows fleets to use a wide variety of device types to capture and display hours of service (HOS) record of duty status (RODS) data—including tablets—as long as they adhere to the technical specifications of the rule. This is so fleets aren't faced with an undue burden both technical and financial.

While the FMCSA does not specifically require fleets to use ruggedized tablets as electronic logging devices, rugged devices, such as the Panasonic Toughbook FZ-B2 and FZ-N1 tablets, offer fleets the durability & reliability they need while adhering to the technical specifications of the ELD mandate.

These devices will also help fleets meet the day-to-day needs of the driver to stay in compliance while on the road:

- 1. Connected:** The Panasonic Toughbook FZ-B2 and FZ-N1 are both powered by Android and provide Wi-Fi, GPS and Bluetooth capability. They can easily transfer hours of service (HOS) and record of duty status (RODS) data to law enforcement and/or inspection personnel.
- 2. Daylight Capable:** The Panasonic B2's 7-inch screen and the FZ-N1's 4.7-inch screen can display information clearly even in the brightest of lighting, allowing law enforcement personnel or roadside inspectors to easily read the screen even in bright sunlight.
- 3. Portable:** Weighing just 1.2 pounds, the Panasonic B2 is designed to go where the driver goes. For an even more portable option, the N1 weighs in at just 0.61 pounds. A full range of mounting accessories are available, so the B2 and N1 can be conveniently mounted in the truck, removed to go with the driver on a job, or handed to inspection or law enforcement officials during a roadside stop.
- 4. Rugged:** The Panasonic B2 is rugged, designed to operate in all weather conditions, tough enough to take the constant vibration of a truck's cab, and durable enough to survive being dropped 5 feet. The smaller N1 is equally as tough, submersible for up to 3.3 feet for 30 minutes and able to take a 6-foot drop. Both the B2 and N1 are designed to take the day-to-day punishment that is often the result of the harsh requirements encountered when driving a truck.
- 5. Supported:** The Panasonic B2 and N1 are supported by a 3-year warranty and a team of technicians that can help fleet personnel and drivers answer any technical questions related to the equipment and its interface with the fleet's ELD solution.

In addition to adhering to the technical specifications of the ELD Mandate, the Panasonic Toughbook tablets give fleets other benefits:

- Both are equipped with a long-lasting, durable battery so drivers won't have to worry about running out of power mid-shift.
- Both have glove touch capability, so drivers can use the tablet while wearing gloves.
- The B2 has an optional 3.0 USB magnetic scanner and barcode reader that allows drivers to use the B2 for their work inside and outside the cab.
- The N1 is equipped with a standard quick charging 3200 mAh Li-Ion standard battery pack and an optional 6400 mAh long life battery pack, and warm-swap capability.
- The N1 is equipped with patented rain sensing and glove-touch-enabled screen.
- The N1 has an angled barcode scanner to increase productivity.

Panasonic offers a range of ruggedized mobile tablets, handhelds and laptops that can help you meet the demanding needs of your fleet and the ELD Mandate.

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