

Speedtest Pulse™

A powerful, pocket-sized network diagnostic solution providing one-tap, smartphone-based validation and actionable troubleshooting insights.



Device Overview

Speedtest Pulse is a pocket-sized professional-grade diagnostic tool, precision-engineered at a disruptive price point. It empowers every frontline technician to definitively validate installs, resolve Wi-Fi issues the first visit, and provide proof of performance.

Active Pulse

Instantly validate new installations or pinpoint network issues wherever they exist—on local Wi-Fi, Ethernet*, or in the internet service delivery itself*—with a single, guided test.

Continuous Pulse* (Coming Soon)

Establish performance baselines, identify intermittent problems, and detect performance degradation before users notice.

*In development

Device Type: Wi-Fi and Ethernet* testing and diagnostics device

Radio Technologies: Wi-Fi 7 (IEEE 802.11be), Bluetooth (Bluetooth 5.x or later)

Frequency Range:

- **Wi-Fi 7:** 2.4 GHz, 5 GHz, 6 GHz (All global Wi-Fi 7 channels & up to 320 MHz wide channels)
- **Bluetooth:** 2400 MHz – 2483.5 MHz (All Bluetooth operating frequencies)

Frequency Range: Intel® Wi-Fi 7 BE200

- FCCID: PD9BE200D2
- ICID: 1000M-BE200D2

Ethernet Port: Verify inbound wired connected performance up to 1 Gbps

Antenna: 2 custom designed omnidirectional antennas.

High performance processing engine:

- Advanced quad-core processor: Precision-engineered for real-time Wi-Fi 7 data analysis and high-speed throughput testing.
- Dedicated system management: Secondary low-power co-processor ensures “always-on” battery monitoring and instant-wake display response.

Speedtest Pulse™ Technical Specifications

Device

- **Device name:** Speedtest Pulse™
- **Device model:** STP-1
- **Country of Origin:** Finland
- **Manufactured for Ookla by:** Ekahau Oy, Jaakonkatu 5, 00100 Helsinki, Finland

Power Specifications

- **Charging**
 - USB-C PD 5 V / 2.5 A = 12.5 W
 - USB legacy 5 V / 500 mA = 2.5 W
 - Power-over-Ethernet (PoE): 48 V / max 7.5 W
- **Battery:** Polymer Li-Ion rechargeable 7.4 Wh 3.7 V 2000 mA
- **Battery Life:** dependent on usage pattern, over two hours of active testing.

Radio Standards and Antenna

- **Wi-Fi:** Wi-Fi 7 2x2 MIMO 802.11a/b/g/n/ac/ax/be 320MHz @ 2.4GHz / 5GHz / 6GHz
- **Bluetooth:** Bluetooth 5.4
- **2x omni-directional custom design**

Inbox content

- **Speedtest Pulse device**
- **Carrying pouch**
- **USB-C Cable**
- **Quick Start Guide**

Operating Conditions

- **Environment:** Typical indoor use
- **Temperature Range:** 0 - 35 °C
- **Humidity Range:** 10 - 90% RH, non-condensing



Physical Characteristics

- **Dimensions:** 103 x 66 x25 mm
- **Weight:** ~180g
- **Display:** 2.1" AMOLED Touchscreen
- **Indicators:** Small status LED
- **Buttons:** Power (On/Off), Reset
- **Ports:**
 - USB-C 3.0
 - 10/100/1000 BASE-T Ethernet RJ45
- **IP Rating:** No official rating (corresponds to IP20)
- **Phone Attachment:** Smartphone compatible magnetic attachment ring

System Requirements

- **Pulse App Mobile Operating System:** iOS version 18.2 or later required; Android version 16, other version compatibility varies.

Compliance

- FCC Part 15, ISER, CE / EU RED, UKCA, RoHS
- Contains FCC ID: PD9BE200D2 and IC:1000M-BE200D2