**ThinkPad P1 Gen 3 Platform Specifications**

**Processor**
- Supports one 10th Xeon W, Core i9, i7, or i5 processor as following:
  - **Xeon W-10855M**: 6 cores, 12 threads, 2.6GHz to 5.1GHz, 12MB DDR4-2933, Intel UHD Graphics.
  - **Core i9-10885H**: 8 cores, 16 threads, 2.4GHz to 5.3GHz, 16MB DDR4-2933, Intel UHD Graphics.
  - **Core i7-10875H**: 8 cores, 16 threads, 2.3GHz to 5.1GHz, 16MB DDR4-2933, Intel UHD Graphics.
  - **Core i7-10850H**: 6 cores, 12 threads, 2.7GHz to 5.1GHz, 12MB DDR4-2933, Intel UHD Graphics.
  - **Core i7-10750H**: 6 cores, 12 threads, 2.6GHz to 5.0GHz, 12MB DDR4-2933, Intel UHD Graphics.

**Chipset**
- Intel WM490 Chipset

**Memory Type**
- SO-DIMM, DDR4-3200 for non-ECC, DDR4-2933 for ECC.
  - Both ECC and non-ECC memory operate at DDR4-2933.
  - 8GB/16GB/32GB available for both ECC and non-ECC.

**Memory Sockets**
- 2 DIMM sockets

**Max Memory**
- 64GB

**Graphics**
- Intel UHD Graphics in processor, also supports one of the following optional discrete graphics:
  - NVIDIA Quadro T1000 with Max-Q Design, 4GB GDDR6 memory
  - NVIDIA Quadro T2000 with Max-Q Design, 4GB GDDR6 memory

**Display**
- **Size**: 15.6"
- **Resolution**: FHD (1920x1080)
- **Type**: WVA Anti-glare
- **Surface**: 300 nits
- **Brightness**: 72% NTSC
- **Viewing Angle**: 170°

**Color Calibration**
- Factory Color Calibration on UHD panels

**Touchscreen**
- Touch enabled on selected UHD OLED models, supports 10-finger gesture

**Pen**
- Optional Lenovo Pen Pro

**Storage**
- Up to two M.2 2280 SSD, PCIe NVMe, 256GB / 512GB / 1TB / 2TB each

**RAID**
- RAID 0 / 1 support

**Optical**
- None

**Ethernet**
- Lenovo USB-C to Ethernet Adapter

**NFC**
- None

**WLAN + Bluetooth**
- Intel Wi-Fi 6 AX201 on most models, Wi-Fi 2x2 802.11ax + Bluetooth 5.1. Bluetooth 5.1 requires the latest version of Windows 10 (version 2004 or above)

**WWAN**
- One of the following, configurable by model:
  - No WWAN card and non upgradable
  - Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card

**SIM card**
- Optional Nano-SIM card slot

**Dimensions**
- **Width**: 361.8 mm (14.24 in)
- **Depth**: 245.7 mm (9.67 in)
- **Weight**: Starting at 1.7 kg (3.75 lb, FHD non-touch) / 1.8 kg (3.97 lb, OLED touch)

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**Case color**
- Woven Carbon Fiber Finish (standard on OLED models, optional on UHD WVA models) or black

**Case material**
- Display cover: Carbon Fiber (Black or woven pattern) + PC + PPS Hybrid Bottom: Aluminum + PC / ABS

**Media reader**
- SD card reader

**Standard Ports**
- 2x Thunderbolt (USB-C form, Thunderbolt 3, USB 3.2 Gen 2, PD, DP), 2x USB-A 3.2 Gen 1 (one Always-on), 1x HDMI 2.0, 1x headphone / microphone combo jack, 1x SD card reader, 1x security keyhole

**Optional Ports**
- One optional Nano-SIM card slot on right

**Monitor support**
- Up to 4 displays with 3 external monitors plus system LCD screen. External monitors supported via 2x Thunderbolt and 1x HDMI. HDMI supports up to 4K@60Hz. Two Thunderbolt support up to 5K@60Hz each

**Monitor cable**
- Optional HDMI to VGA, USB-C to DP, or USB-C to VGA adapters

**Bundled Accy**
- None

**Camera**
- Supports one optional camera as following:
  - 2x120p camera with ThinkShutter camera privacy, fixed focus
  - Hybrid IR camera with ThinkShutter camera privacy, fixed focus

**Audio chip**
- Realtek ALC3286 codec

**Speaker**
- Stereo speakers, Dolby ATMOS Speaker System

**Microphone**
- Optional dual far-field microphone

**Keyboard**
- 6-row, spill-resistant, LED backlight, multimedia Fn keys with Unified Communications controls

**UltraNav**
- 3-button TrackPoint pointing device and 2-button glass surface multi-touch touchpad

**Password**
- Power-on password, hard disk password, supervisor password

**Security chip**
- Discrete TPM 2.0, TCG Certified, may be disabled in some regions

**System mgmt**
- Optional Intel vPro Technology supported on vPro enable models

**Security locks**
- Security keyhole for optional Kensington lock

**Smart card reader**
- None

**Fingerprint reader**
- Touch style match on chip fingerprint reader on the palm rest

**Battery**
- Integrated Li-Polymer 80Wh battery. Supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter

**Max battery life**
- MobileMark 2018: 12 hr

**Power Adapter**
- One of the following:
  - 135W slim AC adapter
  - 170W slim AC adapter

**Operating system**
- Supports one optional preloaded operating system as following:
  - Windows 10 Home 64
  - Windows 10 Pro 64
  - Windows 10 Pro for Workstations
  - Windows 10 Government Edition 64
  - Ubuntu Linux LTS (available later)
  - Fedora Linux (available later)

**Base Warranty**
- Optional warranty plans as following:
  - Non-warranty (special bids only)
  - 1-year depot repair service
  - 3-year depot repair service
  - 1-year + 2-year depot repair service
  - 1-year limited onsite service
  - 3-year limited onsite service
  - 1-year + 2-year limited onsite service
  - 1-year depot with 2-year system board repair service

**ISV certifications**
- www.thinkworkstations.com/isv-certifications/

**Mil-Spec test**
- MIL-STD-810G military testing

**Environment**
- EPEAT Gold. ENERGY STAR 8.0. RoHS-compliant

**SV certifications**
- Please visit www.thinkworkstations.com/sv-certifications/

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