PIONEER COMPUTERS

15.6" Wide

DreamBook PB50

Advanced specifications for the demanding applications

Pioneer Computers
Unit 2, 37 O'Riordan Street Alexandria NSW 2015 Australia
Tel: +612 9690 2888 Fax: +612 9690 0333 Email: sales@pioneer.net.au Web: www.pioneer.net.au

DreamBook PB50 Specification

Processor	• Intel® Core™ i9-9980HK processor (14nm, 2.4GHz, DDR4-2666MHz, 16MB Smart Cache, TDP: 45W) • Intel® Core™ i7-9750H processor (14nm, 2.6GHz, DDR4-2666MHz, 12MB Smart Cache, TDP: 45W) • Support CPU over clocking on K processor
Core Logic	• Mobile Intel® HM370 Express Chipset
Display	• 15.6" (39.62cm) UHD (3840x2160) / FHD (1920x1080) 16:9 panel, 3.2mm • 15.6" (39.62cm) UHD (3840x2160) OLED MSHybrid 16:9 panel, 2.2mm
Memory	• Dual channel DDR4 • Two 260 pins SODIMM sockets, support DDR4 2666 MHz (Real operation frequency depends on processor) • Expandable memory from 8GB to 64GB, depends on 4GB/8GB/16GB/32GB SODIMM module • Support XMP 3000 MHz (XMP support depends on processor)
Video Controller	• NVIDIA® GeForce RTX™ 2070 (N18E-G2) - 8GB GDDR6 Video RAM - Support PCIe x16 - Microsoft DirectX® 12 compatible - NVIDIA® PhysX® - GeForce CUDA™ technology - GPU over clocking • Intel® UHD Graphics 630 - Dynamic frequency - Intel Dynamic Video Memory Technology - Microsoft DirectX® 12 compatible • Microsoft Hybrid Graphics mode or dGPU Mode (OLED MSHybrid Panel cannot support dGPU mode) • Support 4 active displays • Support NVIDIA® Surround View via HDMI x1,miniDP x1 and DisplayPort over Type-C
Storage	• One changeable 2.5" 7mm(H) HDD/SSD, SATA interface • (Factory Option) Two M.2 2280 SSD PCIe Gen3x4 interface(RAID 0/1) or One M.2 2280 SSD SATA interface
Audio	• High Definition Audio • S/PDIF digital output • Built in array microphone • Built in two 2W speakers • Sound BlasterX® Pro-Gaming 360°
Keyboard and Pointing Device	• Multi languages Multi-Color illuminated full size keyboard with numeric pad • (Factory Option) Multi languages full color LED per key illuminated full size keyboard with numeric pad • (Factory Option) Built in Gamma Secure pad or Touch pad with Microsoft PTP multi-gesture and scrolling function
I/O ports	• 3 x USB 3.0 ports (USB3.1 Gen1, Type-A,1 x powered USB port, AC/DC) • 1 x USB 3.1 port (USB 3.1 Gen2,Type-C) or (Factory Option) 1x Thunderbolt™ 3 port • 1 x DisplayPort 1.3 over USB 3.1 Gen 2 (Type-C) • 1 x Mini DisplayPort 1.3 • 1 x HDMI™ output port (with HDCP) • 1 x 2-in-1 Audio Jack (Headphone / Microphone) • 1 x 2-in-1 Audio Jack (Microphone / S/PDIF optical output) • 1 x RJ-45 LAN port • 1 x DC-in jack
Card Reader	• 6-in-1 Push-Push Card reader - MMC / RSMMC - SD / mini SD / SDHC / SDXC up to UHS-II
Slot	• Three M.2 card slots -1st for WLAN Combo M.2 2230 Card with PCIe / USB / CNVi interface (E key) -2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface (M key) -3rd for SSD M.2 2280 Card with PCIe Gen3x4 interface (M key)
Communication	• Built in 10/100/1000Mb Base-TX Ethernet LAN • (Factory Option) Intel® Dual Band Wireless-AC 9260, 2x2 AC + BT M.2 2230 (Thunder Peak 2) • (Factory Option) Intel® Dual Band Wireless-AC 9560, 2x2 AC + BT M.2 2230 (Jefferson Peak 2) • (Factory Option) Intel® Dual Band Wireless-AC 9462, 1x1 AC + BT M.2 2230 (Jefferson Peak 1) • (Factory Option) Qualcomm® Atheros Killer™ Dual Band Wireless-AC 1550i, 2x2 AC + BT M.2 2230 • 1.0M HD video camera
Power Supply	• Full Range AC adapter, AC in 100~240V, 50~60Hz, DC output 19.5V, 11.8A, 230W • Removable 6 cells Smart Lithium-Ion battery pack, 62WH • Battery life: 420 minutes (with UMA mode, 62WH Battery)
Security	• Security (Kensington® Type) Lock Slot • Intel ® PTT for system without hardware TPM • (Factory Option) Finger Print on Glass • (Factory Option) TPM 2.0
Others Design	• Metal (A/C) • Shipping mode • FlexiCharger • Virtual Reality ready • Intel® Optane™ Technology (For Intel core processor family) • Windows® Mixed Reality Compatible • (Factory Option) USB drive
OS Support	• Windows®10 RS5 (64-bit)
Certificate	• Windows®10 RS5 (64-bit) Logo • HDMI™ Logo
Dimension	• 359(W) x 258(D) x 29.9(H) mm
Weight	• 2.5Kg, Including Barebone and 62WH Battery

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