

nMCS notebook PXle Measurement & Control System

HW-19133

Compliant with PXle/PXI bus standard specifications
Built-in HOUWU® PXle-9180 controller
Built-in HOUWU® 3U 13-slot PXle Gen3.0 high-speed backplane
One 3U PXle system slot and twelve 3U PXle/PXI expansion slots
System slot bandwidth 24GB/s
Each expansion slot has a dedicated bandwidth 8GB/s
Compatible with PXle/PXI modules such as data acquisition, modular instruments, aviation bus, FPGA, etc.
All aluminum-magnesium alloy reinforced compact design
Special impact resistant corners and reinforced silicone handle design
18.5" high-definition industrial display with 1920x1080 resolution
Multi-point capacitive touch screen
Industrial touch pad and waterproof silicone keyboard
Built-in 400W high-power industrial power supply
Power input with aviation connector design
PXle cage retracted 45mm design
Flexibly customizable IO interface with aviation connector



The industry's first high-performance 3U 13-slot PXle ruggedized notebook

HW-19133 is the industry's first 18.5" PXle ruggedized notebook with built-in Intel® Xeon® eight-core, sixteen-thread CPU, embedded PXle controller, PXle high-speed backplane, high-definition industrial display and ruggedized chassis. This PXle notebook adopts professional industrial appearance design, all aluminum-magnesium alloy structure reinforced compact design, integrated 18.5" high-definition industrial display, multi-point capacitive touch screen, industrial touch pad, keyboard and industrial power supply, etc. It has the characteristics of high integration, robustness, portability, and is suitable for various harsh indoor and outdoor environments or complex working conditions where test equipment needs to be portable and mobile.

HW-19133 built in high-performance HOUWU® 3U 13-slot PXle high-speed backplane, based on PCIe Gen3.0 technology, in compliant with PXle/PXI bus standard specifications, with one PXle system slot, one PXle expansion slot, nine PXle/PXI hybrid expansion slots (compatible with PXle and PXI modules) and 2 PXI expansion slot, the system slot bandwidth is 24GB/s, each expansion slot has a dedicated bandwidth 8GB/s, compatible with PXle/PXI modules such as high-speed data acquisition, high-speed digitizer, digital multimeter, aviation bus, FPGA, RF and switch modules. This PXle notebook supports PWM fan speed control, according to the internal temperature of the chassis fan adaptive speed adjustment to the controller and module cooling.

HW-19133 makes full use of the characteristics of PXle/PXI bus, such as stability, reliability, good compatibility, solid structure, large data throughput, high performance. According to the different project applications, this PXle notebook can be built with various PXle/PXI modules to realize the test and measurement of microwave, radio frequency, high-speed digital, signal simulation, prototype validation, voltage, current, temperature, frequency, stress, strain, vibration, shock, audio, video and various aviation bus, etc. Users can quickly build various measurement, test and control system on this portable measurement & control platform, which is suitable for military defense, aerospace, weapons, electronics, ships and other field actual combat applications and scientific experimental research occasions.

Operating System	Windows® 7 Windows® 10
CPU	Intel® Xeon® Processor D-1548 2.0GHz (12M Cache, up to 2.6 GHz) Octa-Core Sixteen-Threads
Discrete Graphics	NVIDIA GeForce GT 1030 GDDR 2GB (Option 1) NVIDIA GeForce GTX 1050 GDDR 2GB (Option 2)
RAM	16GB DDR4 (upgradeable to 32GB/48GB)

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Storage	SATA 1TB SSD (upgradeable to 2TB)
Link Configuration	PXle-9180 Controller PCIe Gen3.0 Specification 2 Link: PCIe3.0 x16 + PCIe3.0 x8
LCD	18.5" high-definition industrial display with 1920x1080 resolution
Touch Screen	Multi-point capacitive touch screen
Backplane	3U 13-slot PXIe backplane based on PCIe Gen3.0 technology 1 PXIe system slot、1 PXIe expansion slot、9 PXIe/PXI hybrid expansion slots and 2 PXI expansion slot System slot bandwidth 24GB/s, each expansion slot has a dedicated bandwidth 8GB/s
IO	LAN x2, USB3.0 x4, USB2.0 x2, RS232 x2, DP x2, SMB x1, LED x2 PXIe cage retracts 45mm and the aviation connector IO adapter panel area is 437mm x 106mm.
Keyboard	Waterproof silicone keyboard / Mechanical keyboard (optional)
Aviation Connector	Users can flexibly customize IO interfaces with aviation connectors for PXIe/PXI modules
Heat Dissipation	The fan supports PWM operation mode, adaptive speed regulation, active heat dissipation, and complies with PXIe/PXI bus standard specifications.
Power Supply	400W / 600W (optional), industrial grade, AC input, 90VAC~264VAC, 47Hz~63Hz, aviation connector design
Environment	Operating temperature: 0°C ~ 50°C (normal level) Operating temperature: -10°C ~ 55°C (industrial level) Storage temperature: -40°C ~ 70°C Relative humidity: 5% ~ 95% (no condensation)
Shock Resistance	30G peak, half-sine, 11ms pulse
Vibration Resistance	2.4Grms@5~500Hz (1 hour each in X, Y, Z directions)
Dimension	506 x 367 x 178 mm (excluding corners and handles)
Weight	16.3KG (including HOUWU® PXIe-9180 controller)
Packaging	Customized aviation trolley case
Category	nMCS, notebook PXIe Measurement & Control System

Note: Due to regular product upgrades, for more updated and accurate specifications and configuration information, please contact HOUWU TECHNOLOGY at +86-755-29982022.