nMCS notebook PXIe Measurement & Control System

HW-1753

Compliant with PXIe/PXI bus standard specifications
Built-in HOUWU® controller
Built-in HOUWU® 3U 5-slot PXIe backplane
One 3U PXIe system slot and four 3U PXIe/PXI hybrid expansion slots
System slot bandwidth 8GB/s
Each expansion slot has a dedicated bandwidth 2GB/s
Compatible with PXIe/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
17.3" high-definition industrial display with 1920x1080 resolution
Optional tempered glass, industrial resistive touch screen or multi-point capacitive touch screen
Industrial touch pad and waterproof silicone keyboard
Power input with aviation connector design
PXIe cage retracted 45mm design
Flexibly customizable IO interface with aviation connector

The industry's first high-performance 3U 5-slot PXIe ruggedized notebook

HW-1753 is the industry's first 17.3" PXIe ruggedized notebook with built-in Intel® Core™ 6th Gen i7 Quad-core eight-thread CPU, embedded PXIe controller, PXIe backplane, high-definition industrial display and ruggedized chassis. This PXIe notebook adopts professional industrial appearance design, all aluminum-magnesium alloy structure reinforced compact design, integrated 17.3" high-definition industrial display, tempered glass (Optional industrial resistive touch screen or multi-point capacitive touch screen), industrial touch pad, waterproof silicone 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-1753 built in high-performance HOUWU® 3U 5-slot PXIe backplane, in compliant with PXIe/PXI bus standard specifications, with one 3U PXIe system slot and four 3U PXIe/PXI hybrid expansion slots (compatible with PXIe and PXI modules).The system slot bandwidth is 8GB/s, each expansion slot has a dedicated bandwidth 2GB/s, compatible with PXIe/PXI modules such as high-speed data acquisition, high-speed digitizer, digital multimeter, aviation bus, FPGA, RF and switch modules. This PXIe 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-1753 makes full use of the characteristics of PXIe/PXI bus, such as stability, reliability, good compatibility, solid structure, large data throughput, high performance. According to the different project applications, this PXIe notebook can be built with various PXIe/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® Core™ 6th Gen i7-6822EQ 2.0GHz (8MB Cache, up to 2.8GHz) Quad-Core, Eight-Thread
RAM	16GB DDR4 (upgradeable to 32GB)
Storage	SATA 1TB SSD (upgradeable to 2TB)

SHENZHEN HOUWU TECHNOLOGY CO., LTD.
4th Floor, Building B, Taohuayuan Science and Technology Innovation Park
No. 9 Furong Road, Songgang, Bao'an District, Shenzhen, China
+86-755-29982022
http://www.houwu.com.cn

Link Configuration	**PXIe Controller** PCIe Gen3.0 Specification 4 Link: 4 x PCIe3.0 x4
LCD	17.3" high-definition industrial display with 1920x1080 resolution
Touch Screen	Tempered glass / Industrial resistive touch screen / Multi-point capacitive touch screen (optional)
Backplane	3U 5-slot PXIe backplane 1 PXIe system slot and 4 PXIe/PXI hybrid expansion slots System slot bandwidth 8GB/s, each expansion slot has a dedicated bandwidth 2GB/s
IO	LAN x2, USB2.0 x4 PXIe cage retracts 45mm and the aviation connector IO adapter panel area is 380mm x 42mm.
Keyboard	Waterproof silicone keyboard
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	With dedicated power adapter: input AC 100V~240V, output DC 19V/11.57A, 220W
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	446 x 355 x 114 mm (excluding corners and handles)
Weight	11.8KG (including HOUWU® 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.*

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