

## iMCS integrated PXle Measurement & Control System

### HW-1363i(G2)

Built-in ultra-long-life smart lithium battery  
Compliant with PXle/PXI bus standard specifications  
Built-in HOUWU® PXle-9170 controller  
Built-in HOUWU® 3U 6-slot PXle backplane  
One 3U PXle system slot and five 3U PXle/PXI hybrid expansion slots  
System slot bandwidth 16GB/s  
Compatible with PXle/PXI modules such as data acquisition, modular instruments, aviation bus, FPGA, etc.  
Built-in system status monitoring and management software HMCSP  
Built-in smart lithium battery monitoring and management software HBSSM  
All aluminum-magnesium alloy reinforced compact design  
Special impact resistant corners and reinforced metal handle design  
13.3" high-definition industrial display with 1920x1080 resolution  
Multi-point capacitive touch screen or resistive touch screen  
9V~32V DC power supply wide voltage input (with dedicated 24V power adapter)  
Power input with aviation connector design



HW-1363i方案

#### The industry's first high-performance 3U 6-slot PXle ruggedized integrated

HW-1363i(G2) is the industry's first 13.3" PXle ruggedized integrated with built-in Intel® Core™ 6<sup>th</sup> or 9<sup>th</sup> Gen i7 Quad-core eight-thread, six-core twelve-thread CPU, embedded PXle controller, PXle backplane, smart lithium battery, high-definition industrial display and ruggedized chassis. This PXle integrated adopts professional industrial appearance design, all aluminum-magnesium alloy structure reinforced compact design, integrated 13.3" high-definition industrial display, multi-point capacitive touch screen or resistive touch screen and smart lithium battery, 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-1363i(G2) built in high-performance HOUWU® 3U 6-slot PXle backplane, based on PCIe Gen2.0 technology, in compliant with PXle/PXI bus standard specifications, with one 3U PXle system slot and five 3U PXle/PXI hybrid expansion slots (compatible with PXle and PXI modules), slot 2 bandwidth 4GB/s, slot 3 bandwidth 4GB/s, slot 4 bandwidth 4GB/s, slot 5 bandwidth 2GB/s, slot 6 bandwidth 2GB/s, resulting in a total system slot bandwidth 16GB/s, compatible with PXle/PXI modules such as high-speed data acquisition, high-speed digitizer, digital multimeter, aviation bus, FPGA, RF and switch modules. The machine has built-in system status monitoring and management software HMCSP, which can monitor the voltage of each power supply, chassis internal temperature and fan speed in real time, and supports PWM fan speed control. According to the high and low temperature inside the chassis, the fan speed is adaptively adjusted to dissipate heat for the controller and modules. The machine has built-in smart lithium battery monitoring and management software HBSSM, which can monitor all status parameters of the smart lithium battery in real time, including battery voltage, charging and discharging current, real-time power, battery life, charging and discharging times, etc.

HW-1363i(G2) 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 integrated 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.

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<b>Operating System</b>	Windows® 7 (Option 1, Option 2) Windows® 10 (Option 1, Option 2, Option 3, Option 4)
<b>CPU</b>	Intel® Core™ 6 <sup>th</sup> Gen i7-6822EQ 2.0GHz (8MB Cache, up to 2.8GHz) Quad-Core, Eight-Thread (Option 1) Intel® Core™ 6 <sup>th</sup> Gen i7-6820EQ 2.8GHz (8MB Cache, up to 3.5GHz) Quad-Core, Eight-Thread (Option 2) Intel® Core™ 9 <sup>th</sup> Gen i7-9850HL 1.9GHz (9MB Cache, up to 4.1GHz) Six-Core, Twelve-Thread (Option 3) Intel® Core™ 9 <sup>th</sup> Gen i7-9850HE 2.7GHz (9MB Cache, up to 4.4GHz) Six-Core, Twelve-Thread (Option 4)
<b>RAM</b>	16GB DDR4 (upgradeable to 32GB/64GB)
<b>Storage</b>	Original dual solid state drive SSD design: 1, NVMe 500GB SSD x1 (system disk) (upgradeable to 1TB/2TB/4TB) 2, 2.5" SATA3.0 1TB SSD x1 (data disk) (upgradeable to 2TB/4TB/8TB)
<b>Link Configuration</b>	<b>PXle-9170 Controller</b> PCIe Gen3.0 Specification 4 Link: 4 x PCIe3.0 x4
<b>LCD</b>	13.3" high-definition industrial display with 1920x1080 resolution
<b>Touch Screen</b>	Multi-point capacitive touch screen / Industrial resistive touch screen (optional)
<b>Backplane</b>	3U 6-slot PXIe backplane based on PCIe Gen2.0 technology 1 PXIe system slot and 5 PXIe/PXI hybrid expansion slots System slot bandwidth 16GB/s, slot 2 bandwidth 4GB/s, slot 3 bandwidth 4GB/s, slot 4 bandwidth 4GB/s, slot 5 bandwidth 2GB/s, slot 6 bandwidth 2GB/s
<b>IO</b>	LAN x2, USB3.0 x4, USB2.0 x2, RS232 x1, DP x2, VGA x1, SMB x1, RESET x1, LED x4
<b>Heat Dissipation</b>	The fan supports PWM operation mode, adaptive speed regulation, active heat dissipation, and complies with PXIe/PXI bus standard specifications.
<b>Battery</b>	Smart lithium battery 150WH ( upgradeable to 300WH)
<b>Power Supply</b>	9V~32V DC wide voltage input, aviation connector design With dedicated power adapter: input AC 100V~240V, output DC 24V Rated load power 200W
<b>Environment</b>	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)
<b>Shock Resistance</b>	30G peak, half-sine, 11ms pulse
<b>Vibration Resistance</b>	2.4Grms@5~500Hz (1 hour each in X, Y, Z directions)
<b>Dimension</b>	352 x 264 x 149 mm (excluding corners and handles)
<b>Weight</b>	8.1KG (including HOUWU® PXIe-9170 controller,150WH smart lithium battery)
<b>Packaging</b>	Customized aviation trolley case
<b>Category</b>	nMCS, integrated 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.**