STACKRACK

STORM-100

IP65 VMware Rugged GPGPU Workstation

MIL-STD 810G

- Intel® CoreTM-i7-7600U (3.9 GHz)
- 1000 Nits Brightness
- 6 Programmable Function Keys
- G.F.G. Touchscreen
- Dual battery for extended operation
- Command and control joystick
- IP65 & Certified to MIL-STD 810 & 461

intel **CORE™ i7 8th Gen**

Extended Temperature
+60°C
-20°C

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Introduction

The STORM-100 features a 1000 Nit brightness 10.1" resistive multi-touch display that can be operated with gloves. Equipped with dual capacity batteries and powered by Intel® 7th Gen, Core i7-7600U processor. IP65 rated, the tablet can be customized to meet the needs of the user, from cable connectors to wireless options. A multi-function capability that can be configured (software required) to operate & control connected sensors, from an Unmanned Ground Vehicle to an Unmanned Ariel Vehicle. An ideal capability for Light Force users be it in the mounted or dismounted environment.

Description of Key Features

Operate day and night
STORM-100 features a high-brightness screen, specifically for outdoor use in direct sunlight.

Optical Bonding
Optical bonding is optimized to reduce noticeable light reflection, making the STORM-100 appear brighter in high ambient light environments and direct sunlight.

Command & Control
Integrated with a command & control joystick to allow the operation of connected sensors. Multi-function, multi-use.

Programmable Keys
3 programmable function keys for user pre-defined capability. SHIFT key to allow the operation of alternate functionality.

GFG Resistive Touchscreen
Using GFG touch technology, the screen can be operated with direct touch, when using gloves or with a stylus. Robust & rugged by design.

Robust FISHER IO
Equipped with FICHER Ultimate/ Minimax series for proven durability & high-performance shielding.

Frame Grabber Card
Integrated vision system with frame grabber card. Capture, store & analyze.

Rugged Design
MIL-STD 461 & 810 certified and rated IP65. True rugged performance.

SPECIFICATIONS

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High Performance Processor	Intel® CoreTM-7600U (3.9 GHz)
Memory	DDR3L SO DIMM Socket x1, up to 8 GB
Storage Device	M.2(NGFF) SSD,64 GB (Default)
Communication	Wi-Fi 802.11 b/g/n BT V4.1
Navigation	GPS, GLONASS
WWAN (option)	LTE via mini-card slot (Optional)
Video Capture (option)	NTSC-PAL, HD-SDI (Analog to Digital/ PAL)
Camera	2MP front camera, 5 MP auto-focus rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, light-sensor
Expansion Slot	Docking connector x 1, GNSS antenna pass-through connector x 1, WWAN antenna pass-through connector x 1 (Optional)
Barcode (option)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (option)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only UID), Dependant on card type
Physical Key	Left: PWR/SHIFT Right: 1-3 Programmable function keys 4. Enter 5. Up 6. Down

DISPLAY	
LCD	10.1 TFT-CD/16:9 with LED backlight
Resolution	1920 x1200 pixel
Maximum	16.7 M
Brightness	1000 Nits

POWER SUPPLY	
Power	AC 100~240V, 50~60 Hz, DC 19V/3.42A(65W)
Battery	Dual Li-ion Hight Capacity Batteries, up to 10 Hours Battery Life
Master/Slave	Hot-swappable battery: 14.4V, 2270 mAh,32.7W

TOUCH SCREEN	
Touch Type	10.1 GFG Touch Screen

RIGHT I/O	
Display	1 x HDMI (Fisher Interface-Optional)
USB	1 x USB 3.0 (Fisher Interface-Optional), 2 x USB 2.0 (Fisher Interface)
Ethernet	1 x RJ45 (Fisher Interface)
COM	1 (RS232/422/485) (Fisher Interface)
DC-in	1 x 100V-240V, 50Hz-60Hz, 65W Output:19V (Fisher Interface)

LEFT I/O	
Audio	1 x Audio Jack
MicroSD	1
SIM	1

OS SUPPORT LIST	
Windows	Windows® 10 IoT Enterprise 64bit (Default) Windows® 7 for Skylake (Optional)
Linux	Fedora 15, Ubuntu, Red Hat

| MECHANICAL AND ENVIRONMENT	
Dimension	374.6 x 221.2 x 54.8 mm
Color	Yellow
Gross Weight	TBC
Operating Temp.	-20 to +60°C
Storage Temp.	-55°C to 70°C
Relative Humidity	50°C; 5% to 90% R/H; 120 hours, non-condensing
Thermal Solution	Passive cooling
Certification	CE, FCC compliant; UL: UL60950-1, CE/LVD: EN60950-1
Green Product	RoHS2.0, WEEE compliance
Ingress Protection	IP65
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24,Fig. 514.6E-1 & E-2
Drop	MIL-STD-810G Method 516.6 Procedure IV -Height of Drop: 122cm (48 inch;4 ft), -Number of Drop: 26 times, -Floor: Two inch plywood backed by concrete, -For all surfaces, edges and corners
ESD	Air charge:+/- 8KV, Contact charge:+/- 4KV

Dimensions
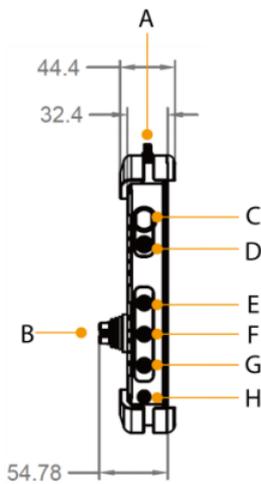
Front Side
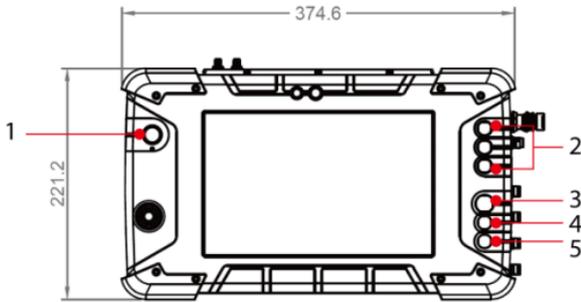
Button	Function
1	Power/Shift
2	Programmable Function Keys
3	Enter
4	Up
5	Down

Back Side
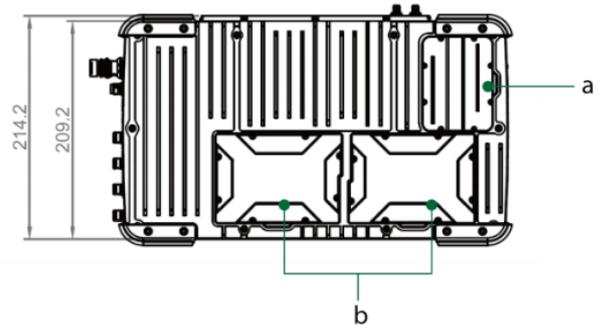
Back Cover	Function
a	Service Door
b	Dual Battery Cover

Right Side

IO Port	Function
A	Frame grabber
B	Joystick
C	HDMI
D	USB3.0
E	USB2.0
F	USB2.0
G	RJ45
H	COM
I	DC-IN

Left Side
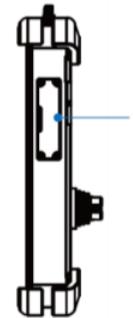
IO Port	Function
i	Audio Jack, Micro SD, SIM,