



V7-MAV

**GPU-POWERED MILITARY LAPTOP
SENSOR-TO-DECISION IN ONE UNIT**



- Intel® 13th Gen Core™ i7 Processor
- NVIDIA Quadro Ada 4500
- FHD 1000 Nits Sunlight Readable Multi-touch Display
- Dual 10G Fiber Connectivity
- 2 x PoE Ports, Tactical Camera Support
- Swappable NVMe M.2 Storage
- IP65/MIL-STD-810/461 for Extreme Temperatures, Shock and Vibration
- Extended Temperature -20°C ~+55°C

INTRODUCTION

Military Tough. GPU Smart. Engineered for modern battlefields, 7STARLAKE's 15.6" Military Laptop X7-Max delivers unmatched performance and unyielding versatility. Powered by Intel® 13th Gen Core™ i7 Processor and Nvidia Quadro Ada 4500 GPU, the X7-Max brings high-performance edge computing to mission-critical operations.

With dual 10G SFP+ ports, 2 x PoE, dual 10G fiber connectivity, and swappable NVMe M.2 storage, the ruggedized X7-Max ensures non-stop tactical readiness. Its sunlight-readable multi-touch display, IP65 waterproof housing, and resilience to extreme temperatures make it a reliable asset across land, sea, and air operations. Whether supporting AI-powered decision-making, C4ISR, SIGINT, or UGV/UAV console, the X7-Max is more than a rugged laptop. It's built to meet intelligent warfare.

Appearance



ORDER INFORMATION



Model	X7-PIB50	X7-PIA50	X7-MIA45	X7-MIA45F
CPU	i7-13800HRE	i7-13800HRE	i7-13800HRE	i7-13800HRE
GPU	Blackwell 5000	Ada 5000	Ada 4500	Ada 4500
RAM	DDR5 Up to 64GB	DDR5 Up to 64GB	DDR5 Up to 64GB	DDR5 Up to 64GB
TFT-LCD	1000 Nits	1000 Nits	1000 Nits	1000 Nits
Touch	Yes	Yes	Yes	Yes
Storage 1	256 GB	256 GB	256 GB	256 GB
Storage 2	M.2 Option	M.2 Option	M.2 Option	M.2 Option
10G Fiber	N/A	x 2	N/A	x 2
PoE	x 2	N/A	x 2	N/A
LAN	x 2	x 2	x 2	x 2
Rear I/O				
X1	DC-IN	DC-IN	DC-IN	DC-IN
X2	LAN	LAN	N/A	N/A
X3	LAN	LAN	N/A	N/A
X4	3G-SDI (optional)	3G-SDI (optional)	N/A	N/A
X5	3G-SDI (optional)	3G-SDI (optional)	N/A	N/A

SPECIFICATIONS

SYSTEM

CPU	Intel® i7-13800HRE (6P+8E/20T, 2.5/5.0GHz, 24MB cache, 65W)
Memory	2 x DDR5 64GB
GPU	NVIDIA® RTX A4500 (7,168 CUDA Cores, 640 GB/s)

DISPLAY

Display	15.6" TFT LCD FHD (1920 x 1080), 1,000 nits brightness display Sunlight readable, resistive multi touch screen Optional: Capacitive multi-touch screen
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OPERATING SYSTEM

OS Support	Windows 10 pro Windows 11 Pro
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STORAGE

Storage	2 x NVMe M.2 storage
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ETHERNET

Ethernet	2 x RJ45 2.5 Gigabit
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POWER

Power	230W 100-240VAC, 50/60Hz
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DIMENSIONS

Dimensions	395 x 375 x 60 mm (15.55 x 14.76 x 2.36 inch)
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BACK I/O (RUGGED CONNECTOR DTL-38999)

X1	DC-IN
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LEFT I/O

Left I/O	2 x RS232/ 422/ 485 2 x 10G SFP+ (optional) 1 x Audio Combo Jack
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RIGHT I/O

Right I/O	2 x PoE (optional) 2 x USB 3.0 1 x DP 2 x RJ45
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CAMERA

Camera	1 x 5M webcam
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WIRELESS

Wi-Fi	Intel® Wi-Fi 6E AX210 WLAN 802.11 a/b/g/n/ac/ax
Bluetooth	Bluetooth 5.3 Ublox M9N GPS/GLONASS/BeiDou/ Galileo

KEYBOARD

Keyboard	83-key with backlight, resistive
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RUGGED FEATURE

Rugged Feature	IP65, Aluminum-Magnesium Alloy case, Black or Green Color
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ENVIRONMENT

Operating Temp.	-20°C to +55°C
Storage Temp.	-40°C to +71°C

ACCESSORIES

Accessories	AC adapter: 230W 100-240VAC, 50/60Hz MIL-STD-461 AC adapter (230W, 100-240VAC)
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MIL-STD-810 ENVIRONMENT TESTING STANDARDS

Method 501, Operational Temperature, high	Procedure II: +60°C, two-hour dwell, four cycles
Method 501, Storage Temperature, high	Procedure I: +75°C, two-hour dwell, four cycles
Method 502, Operational Temperature, low	Procedure II: -40°C, two-hour dwell, four cycles
Method 502, Storage Temperature, low	Procedure I: -40°C, two-hour dwell, four cycles
Method 514, Vibration	Category 24/Non-Operating (Category 20 & 24, Vibration)
Method 514, Vibration	Category 20/Operating (Category 20 & 24, Vibration)
Method 516, Shock	Procedure V Non-Operating (Mechanical Shock)
Method 516, Shock	Procedure I Operating (Mechanical Shock)
Method 507, Humidity	Procedure II: exposure to 10 cycles of 95% relative humidity at temperatures of 30 °C to 60 °C with conformal coating (optional)
Method 500, Altitude	15,000 feet transport, -200÷2500[m] ground operation and exposed to +55°C and -20°C operation (optional)

(Low Pressure)

Method 510,
Sand-Dust

Procedure I: Blasting dust, 12 hours (optional)

MIL-STD-461 ELECTROMAGNETIC TESTING STANDARDS

CE102

Conducted emissions, power leads, 10KHz to 10MHz

RE102

Radiated emissions, electric filed, 30MHz to 5GHz

RS103

Radiated susceptibility, electric filed, 80Mhz to 3GHz

This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representatives.