X7-PRO

GPU & FPGA-POWERED LAPTOP
SENSOR-TO-DECISION IN ONE UNIT

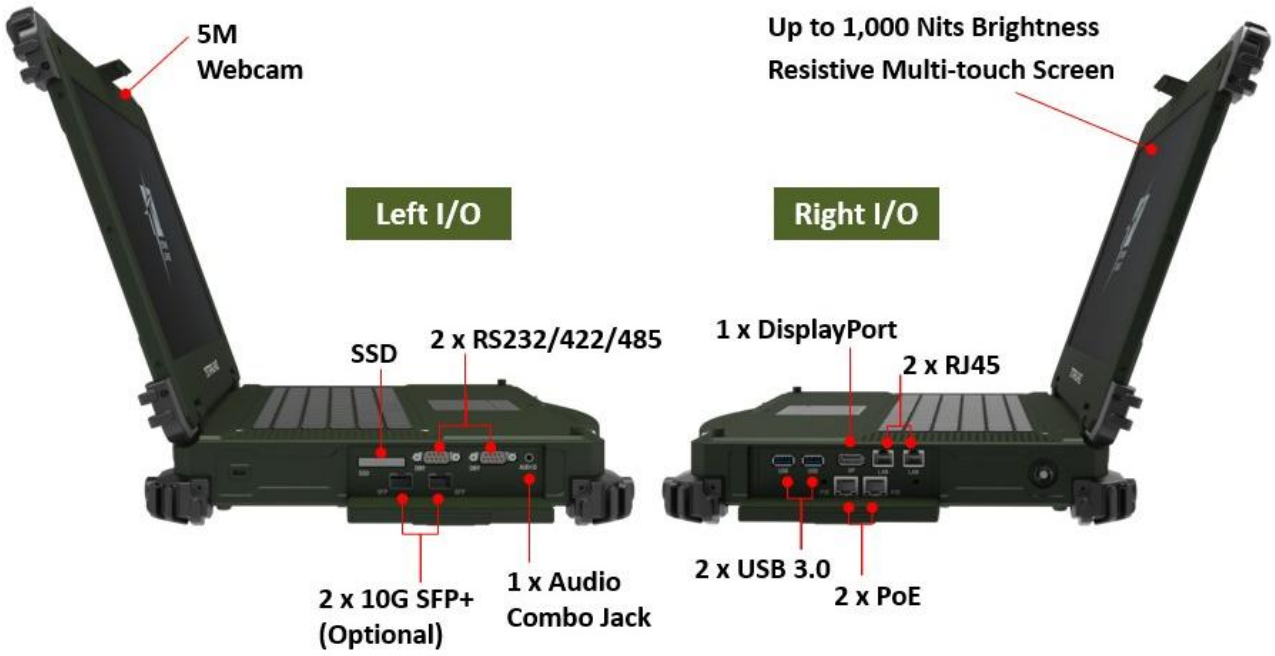
- Intel® Core™ i7-13800HRE Processor
- NVIDIA Blackwell 5000 (14,080 CUDA) / Quadro Ada 5000 (9,728 CUDA)
- FMC Slots – FPGA Based Capability
- FHD 1000 Nits Sunlight Readable
- Dual 10G Fiber Connectivity
- 2 x PoE Ports, Tactical Camera Support
- Swappable NVMe M.2 Storage
- 2 Channel 3G-SDI, Multi-Video Data Input
- Military DTL-38999 Connectors
- IP65/MIL-STD-810/461 for Extreme Temperatures, Shock and Vibration
- Extended Temperature -20°C ~+55°C

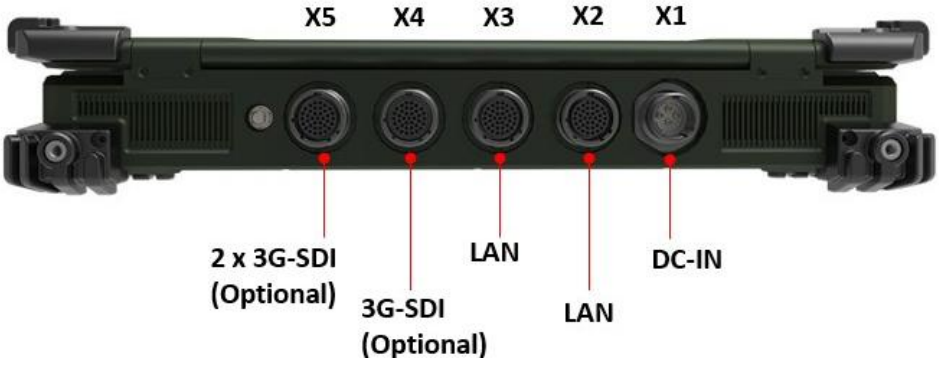
INTRODUCTION

Military Tough. GPU & FPGA Smart. Engineered for modern battlefields, 7STARLAKE's 15.6" Military GPU Laptop X7-Pro delivers unmatched performance and unyielding versatility. Powered by Intel® Xeon® Core i7 processor, Nvidia GPU and FMC expansion, the X7-Pro brings high-performance edge computing to mission-critical operations.

With dual 10G SFP+ ports, dual PoE, 2 Channel 3G-SDI, and Swappable NVMe M.2 storage, the ruggedized X7-Pro ensures non-stop tactical readiness. Its sunlight-readable multi-touch display, IP65-rated 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-Pro 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® Core i7-13800HRE, 6P+8E/20T, 2.5/5.0GHz, 24MB cache, 65W
Memory	2 x DDR4, SO-DIMM, up to 64GB 2 x DDR5, SO-DIMM, up to 64GB
GPU	NVIDIA® PRO 5000 Blackwell (14,080 CUDA Cores, 1,344 GB/s) NVIDIA® RTX 5000 Ada (12,800 CUDA Cores, 576GB/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
Operating System	
OS Support	Windows 10 pro Windows 11 Pro
Storage	
Storage	2 x NVMe M.2 storage
Power	
Power	230W 100-240VAC, 50/60Hz
Dimensions	
Dimensions	395 x 375 x 80 mm (15.55 x 14.76 x 3.15 inch)
Back I/O (Rugged Connector DTL-38999)	
X1	DC-IN
X2	LAN
X3	LAN
X4	3G-SDI (optional)
X5	3G-SDI (optional)
Left I/O	
Left I/O	2 x 10G SFP+ 2 x RS232/422/485 1 x Audio Combo Jack FMC module (optional)

RIGHT I/O	
Right I/O	2 x PoE 2 x USB 3.0 1 x DP 2 x RJ45
CAMERA	
Camera	1 x 5M webcam
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
RUGGED FEATURE	
Rugged Feature	IP65, Aluminum-Magnesium Alloy Case Black or Green Color
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)
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 (Low Pressure)	15,000 feet transport, -200÷2500[m] ground operation and exposed to +55°C and -20°C operation (optional)
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