



Comptek Computer Systems Pvt. Ltd.

(Mfrs. Of Industrial & Rugged Systems)



19" Rugged Laptop PC

The military-rugged workstation from **Comptek** delivers the rugged reliability required for mission-critical operations, combined with high-performance functionality in a portable platform for forward-deployed mission execution. Featuring a 19" HD display, Intel® Xeon® processor, support for up to 128 GB RAM, RAID storage options, and NVIDIA® GPU support, this system is ideal for map visualization, data fusion, GEOINT, video and imagery analysis, and other mission-essential applications at the tactical edge.

With a wide range of use-case accessories and flexible configuration options, Comptek enables the creation of fully customized solutions to meet specific mission requirements. **Comptek rugged systems are designed for demanding military and tactical environments where reliability and performance are critical.**

Customizable

Are you looking for features and functions beyond standard commercial solutions? **Comptek products are engineered to support extensive customization** to meet specific program requirements, including specialized connectors, chassis modifications, mounting solutions, and more. Contact Comptek to identify a solution tailored precisely to your operational needs.

Guaranteed performance

All **Comptek** products are supported by comprehensive lifecycle sustainment services to ensure consistent peak performance across multiple missions. We also guarantee the availability of spare parts for up to **5 years after product end-of-life**, ensuring long-term reliability and support.

Features

- Intel® Xeon® / Intel® Core i5, i7, i9 (12th /13th/ 14th Gen -Optional)
- Up to 128 GB RAM
- 15" - 19" display
- 1000 nit Full HD LCD
- 4x Removable SSD, RAID capable
- 2x Removable Battery
- Docking connector
- Wi-Fi, BT, & GPS (optional)
- NVIDIA GPU (optional)
- Smart Card slot (optional)
- TPM 2.0 (optional)
- Integrated Joystick (optional)

Technical Specification

CPU	Intel® Xeon® E-2176M Processor
Display	19" FHD LCD (1920 x 1080) Brightness: 1000 nits (typical)
Keyboards	83-key w. Backlight (Membrane Type) Resistive Touchpad (Single touch)
Case	CNC milled Aluminium (Black or Green)

Software

Operating system	Windows 10, Windows Server 2016* & Windows Server 2019*
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Memory

RAM	Up to 128 GB DDR4 2400 MHz (4x SO-DIMM) ECC / non ECC
Storage	Up to 4 x SATA III SSD Intel RAID 0, 1, 5, 10 support

Graphics

GPU	Intel® UHD Graphics P630 Nvidia® GeForce® GTX1050 4GB <i>optional</i>
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Battery

Battery	2x 10,8V / 6900 mAh Li-Ion (standard)
Battery (extended temperature)	2x 10,8V / 5000mAh Li-Ion <i>optional</i> (needed for -30°C option)

Sound

Audio	HD Audio and Stereo Speakers
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Security & Management

TPM	TPM2.0 <i>optional</i>
Smart card	Smart Card reader <i>optional</i>
Intel vPro	Supported

Interfaces

Ethernet	1x Ethernet 1000Base-T 1x Additional Ethernet 1000Base-T <i>optional</i>
WiFi/Bluetooth	802.11 a/b/g/n/ac <i>optional</i> Bluetooth 5.0 <i>optional</i>
GPS	Ublox Neo-M8N GPS/GLONASS <i>optional</i>
USB	2x USB 3.1 Gen 2 (w. fast charging) 2x USB 3.1 Gen 2
Video out	1x VGA 1x Display port
Docking port	Yes
Speaker	Stereo Speakers
Audio out / Line in	Stereo / Stereo
Mic	Mic in mono Digital Mic <i>optional</i>
Serial	2x COM** 2x Additional COM* <i>optional</i>

Technical Specification (cont.)

Size & Weight

Dimensions with bumpers (W x D x H)	436 x 328 x 52 mm (17.2 x 12.9 x 2 inch)
Weight	~ 7 kg (15 lbs)

Temperature Range

	-20°C to +60°C (-4°F to +140°F)
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Operational DC	Battery is charging between 10°C to +45°C (+50°F to +113°F) -30°C*** to +60°C (-22°F*** to +140°F)
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Operational DC (-30°C option)	Battery is charging between 0°C to +45°C (+32°F to +113°F)
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Operational Battery (Standard Battery)	-20°C +60°C (-4°F to +140°F)
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Operational Battery (Ext. Temp Battery)	-30°C + 60°C (-22°F to +140°F)
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Storage	-40°C to +71° (-40°F to +160°F)
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Reliability

MTBF (Ground Benign)	51 896 hours
MTRR	15.961 minutes

Power

Power input	19 VDC 12- 32 VDC w. surge protector <i>optional</i>
Operating time	5 hours Configuration: 64GB RAM, 128GB SSD, 100% brightness
Power consumption	Idle: 25W Full load: 100W (with battery charge)
AC Adapter	Please see the accessories section

Standards

CE / FCC	Yes / Yes
REACH	Yes
Environment	MIL-STD-810H IP65
EMC/EMI	MIL-STD-461G Ground Navy (<i>Designed to meet</i>) MIL-STD-461G Ground Army <i>optional</i>

Warranty

Warranty	5 years
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* Radio frequency devices and Intel onboard graphics are not supported by Windows Server 2016 & 2019

** Can be selected via BIOS RS232/RS422/RS485

***LCD Heater active up to -20C* / -4°F

Accessories & Options

AC/DC Adapters

AC Adapter 200W (EU) – Indoor Use	110/220VAC (100~240 VAC), 50/60 Hz
AC Adapter 200W (US) – Indoor Use	110/220VAC (100~240 VAC), 50/60 Hz
AC Adapter 200W Ground Army – Indoor Use (EU)	110/220VAC (100~240 VAC), 50/60 Hz
AC Adapter 200W Ground Army – Indoor Use (US)	110/220VAC (100~240 VAC), 50/60 Hz
AC 150 – AC adapter 150W Ground Navy (IP65, MIL-STD-810G, MIL-STD-461F & Wide temp)	110/220VAC (90~264 VAC), 50/60 Hz or 400Hz
AC 150 – AC adapter 150W Ground Army (IP65, MIL-STD-810G, MIL-STD-461F & Wide temp)	110/220VAC (90~264 VAC), 50/60 Hz or 400Hz

Chargers

Multi battery charger	Charger for 2x 10,8V batteries
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Mounting & Transport

Docking and mounting solutions	Please get in contact with your Comptek sales office for options
Bag / Backpack	Please get in contact with your Comptek sales office for options
Carrying Handle	Standard option.

Operating system

- Windows® 10 / Windows® 11 Pro
- Linux® (Ubuntu® / Red Hat® Enterprise Linux) (Optional)