



TB-R8EX - TABLET INDUSTRIAL

Built for All. All in One.

- 11.6" FHD DynaVue® SR display with 1000 nits
- 20 hrs. Hi-Cap hot-swappable battery
- 12th Generation Intel® Core™ Processor
- Coolfinity™ fanless thermal design
- ATEX Zone 2/22 certified
- 10-point capacitive multi-touch panel with four touch modes
- Intel® Wi-Fi 6E AX211 & Bluetooth® V5.3



Specifications



DURABILITY

- MIL-STD 810H certified (Drop, Shock, Vibration, Rain, Dust, Altitude, Freeze/Thaw, High/Low Temperature, Temperature Shock, Humidity, Explosive Atmosphere, Salt Fog)
- ATEX Zone 2/22 certified
 - Ex II 3G Ex ic IIC T4 Gc
 - Ex II 3D Ex ic IIIB T135°C Dc
- 6' drop 26 faces
- IP 66 certified
- Aluminum-magnesium alloy chassis
- Port covers
- Optional sunlight readable display
- Optional swappable battery technology

OPERATING SYSTEM Windows® 11 Pro 64-bit

PROCESSORS

- Intel® Core™ i7-1250U (12th Gen) Processor with vPro™ (12MB Cache, up to 4.7 GHz, 2P+8E cores)
- Intel® Core™ i5-1230U (12th Gen) Processor with vPro™ (12MB Cache, up to 4.4 GHz, 2P+8E cores)

GRAPHICS

Intel® Iris® Xe Graphics

MEMORY

Onboard 8GB up to 32GB (LPDDR4x)

STORAGE

- 256GB NVME PCIE SSD
- Optional 512GB/1TB/2TB PCIE SSD

DISPLAY

- 11.6" FHD (1920 × 1080)
- Optional 1000nits DynaVue® sunlight readable display with capacitive multi-touch screen
- Optional with digitizer
- User selectable touch mode for Finger/Water, Glove or Stylus programmable function

AUDIO

- Integrated microphone
- Intel® High Definition Audio Compliant
- Integrated speaker × 2

CAMERA

- Integrated 2.0 MP front-facing camera
- Optional 8.0 MP auto-focus rear camera with flash
- Optional 5.0 MP IR camera for Windows Hello

KEYBOARD & INPUT

5 buttons (2 user-definable keys)

COMMUNICATIONS

- Integrated 10/100/1000 Ethernet
- Intel® Wi-Fi 6E AX211 (802.11ax)
- Bluetooth® V5.3
- Optional dedicated GPS module (UBLOX-NEO-M9N)¹
- Optional 4G LTE multi-carrier mobile broadband¹
- Optional 5G (project based)¹

SECURITY

- Intel® vPro™ Technology
- Secured-Core PC²
- TPM 2.0
- NIST BIOS compliant
- Stealth mode
- Kensington lock
- Optional smart card reader x 1
- Optional Windows Hello
- Optional night vision mode³
- Optional fingerprint scanner

I/O INTERFACES

- Thunderbolt 4 x 1
- USB 3.2 Gen1 (type A) x 1
- Audio in/out (combo jack) x 1
- microSD card (microSDHC, microSDXC) x 1
- 10/100/1000 Ethernet (RJ45) x 1
- Docking connector (20-pin Pogo) x 1
- Nano SIM card x 1
- DC-In jack x 1
- Optional smart card reader x 1
- Optional USB 3.2 Gen2 (type C) x 1⁴
- Optional 2nd USB 3.2 Gen1 (type A) x 1⁴
- Optional USB 2.0 (type A) x 1⁴
- Optional serial port (RS232, 422 and 485 : D-sub,9-pin) x 1⁴
- Optional 1D/2D barcode reader x 1⁴

POWER

- AC adapter : 100-240V, 50Hz-60Hz, 65W
- Main battery: Li-Ion, 7.6V, 4800mAh, 10 hours⁵
- Optional hi-cap battery Li-Ion 7.6V, 9600mAh, 20 hours⁵
- Optional bridge battery : 5 minutes swap time⁶

ENVIRONMENT

- Temperature
 - Operating : - 20°C ~ 60°C / - 4°F ~ 140°F
 - Storage : -51°C ~ 71°C / -60°F ~ 160°F
- Humidity : 5% ~ 95%

DIMENSION & WEIGHT

- 317 mm (L) x 215 mm (W) x 23.8 mm (H)
- 1.49 kg

WARRANTY

3-year limited warranty standard

1. Dedicated GPS with 4G LTE and 5G are mutually exclusive options.
2. Contact your sales representative for feature availability.
3. Night vision mode is available only for sunlight readable display.
4. USB 3.2 type C, 2nd USB 3.2, USB 2.0, RS232 or 1D/2D barcode reader are mutually exclusive options. USB 3.2 type C or USB 2.0 are available as project-based features.
5. Tested using the MobileMark 2014 battery life benchmark. Results may vary under different situations including hardware configuration, software, operating conditions, power management settings and other factors.
6. The system will stay operating within 300 seconds when user swaps the battery.