M133K, 13.3-inch Ultra Rugged Tablet

An Ultra Rugged Tablet that Can Survive Any Environment and Get Real Work Done

M133K is the next generation of our 13.3-inch rugged tablet with robust set of features designed to withstand industrial use while providing high tech solutions that increase productivity, improve safety, and reduce operational costs. The processing power comes from Intel's 7th generation Core i5-7200U Kaby Lake and the tablet features a brilliant, wide viewing angle with direct optical bonding, projected capacitive touch screen, which is outdoor viewable and offers a 1920 x 1080 resolution display. Equipped with a built-in kickstand, the M133K is a powerful workstation with reliable performance in a mobile and ultra-rugged design.

Highlights

- Intel® Core™ i5-7200U Kaby Lake processor
- 13.3" 1920 x 1080 wide viewing angle LED Panel
- Magnesium alloy housing with all-around elastomeric rubber
- Built-in kickstand
- Optional hot-swappable user-replaceable battery
- IP65 waterproof and dustproof
- Rated for extreme temperature use
- With optical bonding for optical clarity increasing and readability enhancing
- Optional high brightness panel (600 nits) for sunlight readability

Order Information				
	4G	1D/2D Barcode Reader*	HF RFID	Smart Card Reader*
M133K	N/A	Optional	Optional	Optional
M133K-LE	4G/ LTE for Europe	Optional	Optional	Optional
M133K-LA	4G/ LTE for North America	Optional	Optional	Optional

Barcode Reader and Smart Card Reader are mutually exclusive options.

WINMATE

M133K, 13.3-inch Ubuntu Rugged Tablet

An Ultra Rugged Tablet that Can Survive Any Environment and Get Real Work Done

Display Specification

Size	13.3-inch
Resolution	1920 x 1080
Brightness	350 Nits With Optical Bonding Optional High Brightness 600 Nits
Touch	Multi-touch Projected Capactive with Glove/Rain/Stylus Modes Active Stylus Support
Contrast Ratio	800:1
Viewing Angle	85/85/85/85
Technology	• Intel HD Graphics (built-in CPU) video controller

System Specification

Processor	Gen. Intel® Core™ i5-7200U Kaby Lake, 2.5 GHz (Turbo up to 3.10 GHz)
System Memory	4GB SODIMM DDR4-2400 (up to 16GB) [1]
Storage 1	1 x 128GB M.2 MLC SSD (up to 512GB)
Storage 2	Optional M.2 MLC SSD (up to 512GB)
Operating System	Windows 10 IoT Enterprise
Sensors	Light sensor/ G sensor / Gyro / E-compass

Wireless Communication

WLAN	Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (M.2)
Bluetooth	Intel® Dual Band Wireless-AC 8265 Bluetooth 4.2 (M.2)
GPS	u-blox NEO-M8N for (GPS/GLONASS/Galileo/BeiDou)
WWAN	Optional 4G (LTE,HSPA+,GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT)

Interface

Docking Connector	1 x 19-pin docking connector
HDMI	1 x HDMI
Serial Port	1 x RS232 Serial COM Port
LAN	1 x RJ45-10/100/1000 Mbps LAN
USB	2 x USB 3.0, 2 x USB 2.0
USB Type-C	1 x USB 3.1 Type-C (Gen1)
Power Input	1 x Power Jack (DC Input)
Micro SD	1 x Micro SD Slot
Audio Connector	1 x Headphone Combo Jack
Service Window	Access to 1 x mini PCI-e WWAN card
Expansion Window	1 x Optional Expansion Window (Smart Card Reader/ Barcode)

Keyboard and Input

Touch	• 10-point multi-touch, support Hand / Gloves, Rain Mode, and Active Pen
Button	• On-screen QWERTY keyboard 7 membrane keys: 1 x power, 1 x menu, 3 x function key (Programmable function key)
LED Indicators	Power, Battery, SSD, RF

Audio

Microphone	1 x built-in Digital Mic with Noise Cancellation
Speaker	2 x 1 watt speaker

Cameras

Web Camera	2MP webcam
Rear Camera	5MP rear camera with autofocus and LED light

Data Capture

Barcode Reader	Optional short range 1D/2D barcode reader [2] Motorola SE4500 [2]
Smart Card Reader	Optional built-in smart card reader Comply with ISO7816-1.2.3 T=1 and T=Ø protocol
RFID	Optional HF RFID Reader 13.56 MHz ISO15693, ISO14443A, ISO18092

Certifications

Certifications	CE, FCC, IC, UL

Security Function

Security	• Password security for user and hard disk lock • Trusted Platform Module (TPM) V2.0 [3] • Computrace theft protection agent [4] • Kensington lock slot
Mobile Device Management	SOTI Mobicontrol compatible

Mechanical and Environment

Dimension (W x L x H)	338.2 x 240 x 30 mm (13.3 x 9.4 x 1.18 inches) [5]
Housing	Rear Magnesium Alloy Die-Casting Design
Cooling System	**Fanless** thermal design
Weight	2.4 Kg (Without Kickstand), 2.8 Kg (With Kickstand)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	30% to 80% RH, non-condensing
IP Proof	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete
ESD (Contact/Air)	12kV/12kV

Power Management

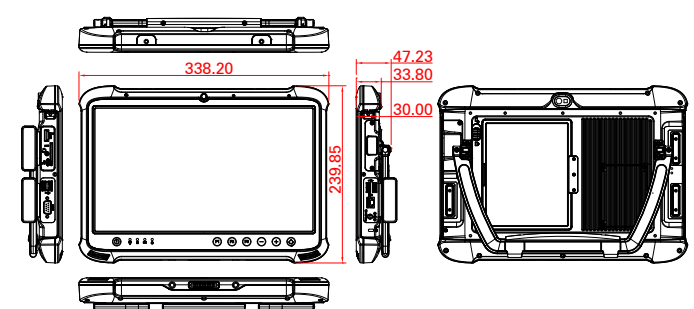|	
Power Input	12~19V DC
Battery	7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P) Optional Hot-Swap
Battery Operating Time	11 Hours (BAPCo TabletMark v3) [6]
Adapter	100-240V, 50-60Hz / 19V DC

Accessories

Standard Accessories

Adapter and PowerCord	922D065W19V1
Standard Battery	98KT00A0000R
Stylus	9B000000006U
Stand with Integrated Handle	98KT00A0000U

Optional Accessories [7]

VESA Mounting Kit	98KT00A0000Q
VESA Mounting Kit 2	98KT00A00019
RAM Mounting Kit	98K000A0007Z
Shoulder Strap	9B000000007I
Battery Charger	98JT00A00001
Active Pen	98K000A0007L
Vehicle Charger	9226065W19V0
Desk Docking	98DT00A000Y

Drawing [8]

Caution Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example)
Do not expose bare skin to this product when handling this unit in extreme hot or cold environments

1. Total usable memory will be less depending upon actual system configuration.
2. Barcode and smart card readers are mutually exclusive options.
3. TPM 2.0 available upon request.
4. Computrace theft protection and SOTI are available upon request.
5. Length measurements do not include protrusions. Weight varies with options.
6. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached."
7. Accessories and Integrated Options may vary depending on your configuration.
8. This is a simplified drawing and some components are not marked in detail.

WINMATE