# M133KML(HB), 13.3-inch Ultra Rugged Tablet

# Military-Grade Tablet Ready for Challenging Tasks and Tough Environments

M133KML (HB) is the next generation of the 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 processor 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 M133KML (HB) is a powerful workstation with reliable performance in a mobile and ultra-rugged design.



# Highlights

- 7<sup>th</sup> Gen. Core™ i5-7200U, 2.5 GHz (turbo up to 3.1 GHz)
- 13.3" 1920 x 1080 Resolution Transflective TFT-LCD Panel
- With daylight-readable screen 500 nits and optical bonding for clarity increasing and readability enhancing
- Optional high brightness 800 nits
- Adjustable Kickstand that is Convertible to a handle (Optional)
- With IP65 dust and water-resistant certification
- Magnesium Alloy Housing with All-Around Elastomeric Rubber
- MIL-STD-38999 connector for LAN/ USB2.0 and Power/ RS232/422/485 Input
- Fully Sealed and Fanless Thermal Design
- MIL-STD-810G Compliant

# Winmate

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### **Display Specification**

Size Resolution Panel Brightness Touch	13.3-inch 1920 x 1080 500 nits with Optical Bonding (Optical 800 nits) Multi-touch Projected Capactive with Glove/Rain/Stylus Modes Active Stylus Support					
Contrast Ratio Viewing Angle	1000:1 89/89/89					
Technology	Intel HD Graphics (built-in CPU) video controller					
System Specification	System Specification					
Processor	Intel® Core™ i5-7200U 2.5 GHz (Turbo up to 3.10 GHz)					
System Memory	4GB SODIMM DDR4-2400 (up to 16GB)					
Storage 1	1 x 128GB M.2 SSD (up to 512GB)					
Storage 2	Optional M.2 SSD (up to 512GB)					
Operating System	Windows 10 IoT Enterprise					

#### **Wireless Communication**

WLAN BT GPS WWAN	802.11 a/b/g/n/ac BT GPS/GLONASS Optional 4G/ LTE or 3G			
Interface				
HDMI Connector Reset SD Card Slot Audio Jack USB Type-C Connector USB3.0 RS232 Serial Port MIL-STD-38999 connector	1 x HDMI 1 x Reset Button 1 x Micro SD Slot 1 x Headphone Combo Jack 1 x USB 3.1 Type-C (Gen1) 2 2 x USB 3.0 1 x RS232 Serial COM Port 1 x LAN/USB2.0 Port 1 x Power/RS232/422/485 Port			

### **Keyboard and Input**

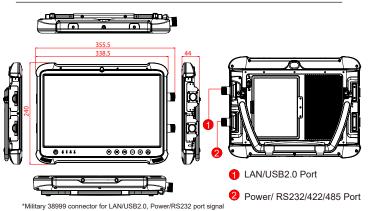
Touch	10-point multi-touch,
	support Hand / Gloves, Rain Mode, and Active Pen
Button	On-screen QWERTY keyboard
	7 membrane keys: 1 x power, 1 x menu,
	3 x function key (Programmable function key)

# **Status Indicators**

LED Indicators

Power, Battery, SSD, RF

### Drawing 7



Audio						
Microphone Speaker	1 x built-in Digital Mic with Noise Cancellation 2 x 1 watt speaker					
Cameras						
Web Camera Rear Camera	2MP webcam 5MP rear camera with autofocus and LED light					
Certifications						
Certifications CE, FCC, IC, UL						
Security Function						
Security  • Trusted Platform Module (TPM) V2.0 <sup>3</sup> • Computrace theft protection agent <sup>4</sup> • Kensington lock slot Mobile Device Management SOTI Mobicontrol compatible						
Mechanical and Environment						
Dimension (W x L x H) Housing Cooling System Weight Operating Temperature Storage Temperature Humidity IP Proof Shock Vibration Drop ESD (Contact/Air)	338.5 x 240 x 44 mm (13.3 x 9.4 x 1.18 inches) <sup>5</sup> Rear Magnesium Alloy Die-Casting Design Fanless thermal design 2.4 Kg (Without Kickstand), 2.8 Kg (With Kickstand) -10°C to 50°C (14°F to 122°F) -20°C to 60°C (-4°F to 140°F) 30% to 80% RH, non-condensing IP65 MIL-STD-810G Method 516.6 Procedure I MIL-STD-810G Method 516.6, 4 ft to concrete 12kV/12kV					
Power Management	L					
Power Input	24V DC					

Power Input	24V DC
Battery	7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P)
	Optional Hot-Swap
Battery Operating Time	11 Hours (BAPCo TabletMark v3)

### Accessories

### **Standard Accessories**

Adapter and Power Cord Standard Battery Stylus Stand with Integrated Handle Power/RS232 External Cable LAN/USB2.0 External Cable

#### **Optional Accessories**<sup>6</sup>

Shoulder Strap Battery Charger Active Pen



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 Caution hot or cold environments

- 1. Total usable memory will be less depending upon actual system configuration.
- 2. The USB Type-C connector follows USB3.0, standard, which does not support Alternate Mode (ALT) or USB Power Delivery (USB-PD)
- 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. Accessories and Integrated Options may vary depending on your configuration.
- 7. This is a simplified drawing and some components are not marked in detail.

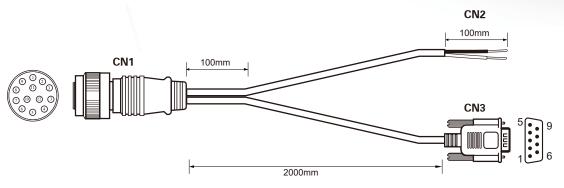


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Fully Ultra Rugged Tablet that Can Survive Any Environment and Get Real Work Done

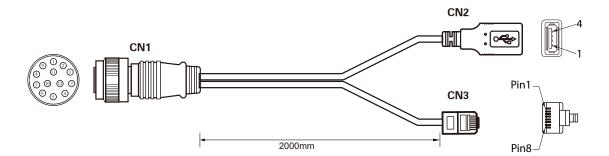
## Pin Definition

# Power/RS232 Cable



Pin No	Symbls	Color	1	Pin No	Symbls	Color
CN1-1	VCC+	White	$\longleftrightarrow$	CN2-1	VCC+	White
CN1-2	VCC-	Black	$ $ $\longleftrightarrow$ $ $	CN2-2	VCC-	Black
CN1-3	NC					
CN1-4	NC			Pin No	Symbls	Color
CN1-5	RS232 DCD	No assignation	$\longleftrightarrow$	CN3-1	RS232_DCD	No assignation
CN1-6	RS232 RXD	No assignation	$\longleftrightarrow$	CN3-2	RS232 RXD	No assignation
CN1-7	RS232 TXD	No assignation	$\longleftrightarrow$	CN3-3	RS232_TXD	No assignation
CN1-8	GND	No assignation	$\longleftrightarrow$	CN3-4	GND	No assignation
CN1-9	RS232 DTR	No assignation	$ $ $\longleftrightarrow$	CN3-5	RS232_DTR	No assignation
CN1-10	RS232 DSR	No assignation	$\longleftrightarrow$	CN3-6	RS232 DSR	No assignation
CN1-11	RS232_RTS	No assignation	$ $ $\longleftrightarrow$	CN3-7	RS232 RTS	No assignation
CN1-12	RS232_CTS	No assignation	$\longleftrightarrow$	CN3-8	RS232_CTS	No assignation
CN1-13	RS232_RI	No assignation		CN3-8	RS232_RI	No assignation

## LAN/USB2.0 Cable



			-				
Pin No	Symbls	Color		Pin No	Symbls	Color	
CN1-1	USB 5V	Red	$\longleftrightarrow$	CN2-1	USB 5V	Red	
CN1-2	USB_GND	Black	$\longleftrightarrow$	CN2-4	USB_GND	Black	
CN1-3	USB_D-	White	$\longleftrightarrow$	CN2-2	USB_D-	White	Twist
CN1-4	USB D+	Green	$\longleftrightarrow$	CN2-3	USB D+	Green	
CN1-5	DA+	Orange/White	$\longleftrightarrow$	CN3-1	DA+	Orange/White	Twist
CN1-6	DA-	Orange	$\longleftrightarrow$	CN3-2	DA-	Orange	
CN1-7	DB+	Green/White	$\longleftrightarrow$	CN3-3	DB+	Green/White	
CN1-8	DC+	Blue	$\longleftrightarrow$	CN3-4	DC+	Blue	Twist Twist
CN1-9	DC-	Blue/White	$\longleftrightarrow$	CN3-5	DC-	Blue/White	
CN1-10	DB-	Green	$\longleftrightarrow$	CN3-6	DB-	Green	
CN1-11	DD+	Brown/White	$\longleftrightarrow$	CN3-7	DD+	Brown/White	Twist
CN1-12	DD-	Brown	$\longleftrightarrow$	CN3-8	DD-	Brown	
CN1-13	NC						FCCCE



HS