10.1 inch Ruggedized Tablet PC

FT101N4200TCAPOB

- **Intel® Pentium® N4200 QuadCore CPU**
- **6GB RAM memory, 128GB industrial SSD**
- **Pre-installed Windows 10 operating system**
- **Built-in rechargeable lithium battery, 7.4V/6000mAh**
- **Kastus® 24/7 antimicrobial coating (3-in-1 protection)**
- **Anti-glare surface treatment (chemical etching)**
- **10-Finger-multi touch capacitive touch panel**
- **1.1mm cover glass with 7H surface hardness**
- **Optically bonded touch panel to LCD panel**
- **Compete IP65 water- and dust proof**
- **Integrated W-LAN & Bluetooth 4.0**
- **Built-in front & back camera**
- **Integrated barcode scanner & fingerprint scanner**
- **2 year guarantee (24/7 usage)**

Kastus®
Antimicrobial Coating

CLEAR BOND
Optically Bonded

faytech's industrial tablet is the perfect ruggedized touch solution to be used as a hand-held device (or mounted pc) while performing tasks on the industrial floor or in rough environments. It is completely IP65 water- and dust proof, has a 10-finger capacitive multi touch panel and 24/7 antimicrobial coating by Kastus®, with a kill rate of >99% against surface bacteria, traditional viruses and human coronavirus.

The tablet has an optically bonded touch panel, which will improve the stability, reduce the reflection, increase the viewing angle, and enhance the perceived brightness. It also provides resistance to dust particles and shows a better image in general.

The device is powered by faytech's industrial Apollo Lake mainboard. It is driven by the powerful Intel® Pentium® N4200 QuadCore processor with up to 2.50 GHz clock frequency. It is equipped with 6GB RAM DDR3 and 128G industrial SSD.

It is great to be used in industrial and business applications, as stationary support or on-the-go solution with Windows 10 OS. Perfect and easy-to-use features, such as the camera, GPS and Wifi are included.

Legend / Notes	
Applicable to version 1	(v1)
Applicable to version 2	(v2)
Applicable to all Versions	None

USB 3.0 UNIVERSAL SERIAL BUS

W-LAN

GPS

IP65

+45˚C
-0 ˚C

24/7

Product name	10.1" Industrial Tablet IP65 N4200						
Model number / EAN number	FT101N4200RTCAPOB / -						
Global Article Code	European Article Code	Release date (D/M/Y)	Version	Global Article Code	European Article Code	Release date (D/M/Y)	Version
3030507377	-	01/07/2021	v1				

IP Rating
IP65

LCD Panel	
Screen diagonal (Inch/cm)	10.1/25.65
Display active screen size (cm)	21.70×13.60
Aspect ratio	16:10
Physical resolution	1920×1200
External Maximum showable resolution - Micro HDMI	1920×1200
Colours displayed	16.7M
Brightness (cd/m²)	500
Contrast	800:1
Typical reaction time Tr / Tf (ms)	25 / 25
Visual Angle horizontal / vertical (°)	178 / 178
Backlight / Backlight Lifetime (hours)	LED / 50,000

Operation / Mechanical	
Operating Temperature (°C)	0 ~ +45
Humidity Range (RH)	10% - 90%
Net weight (kg)	1.20
Gross weight (kg)	1.70 (incl. cartonage)
Housing material	Plastic Case, Silicone Rubber Frame
Housing (mm) L × W × H	280.0 × 185.0 × 26.5
Mounting	4x M3.5 screw thread

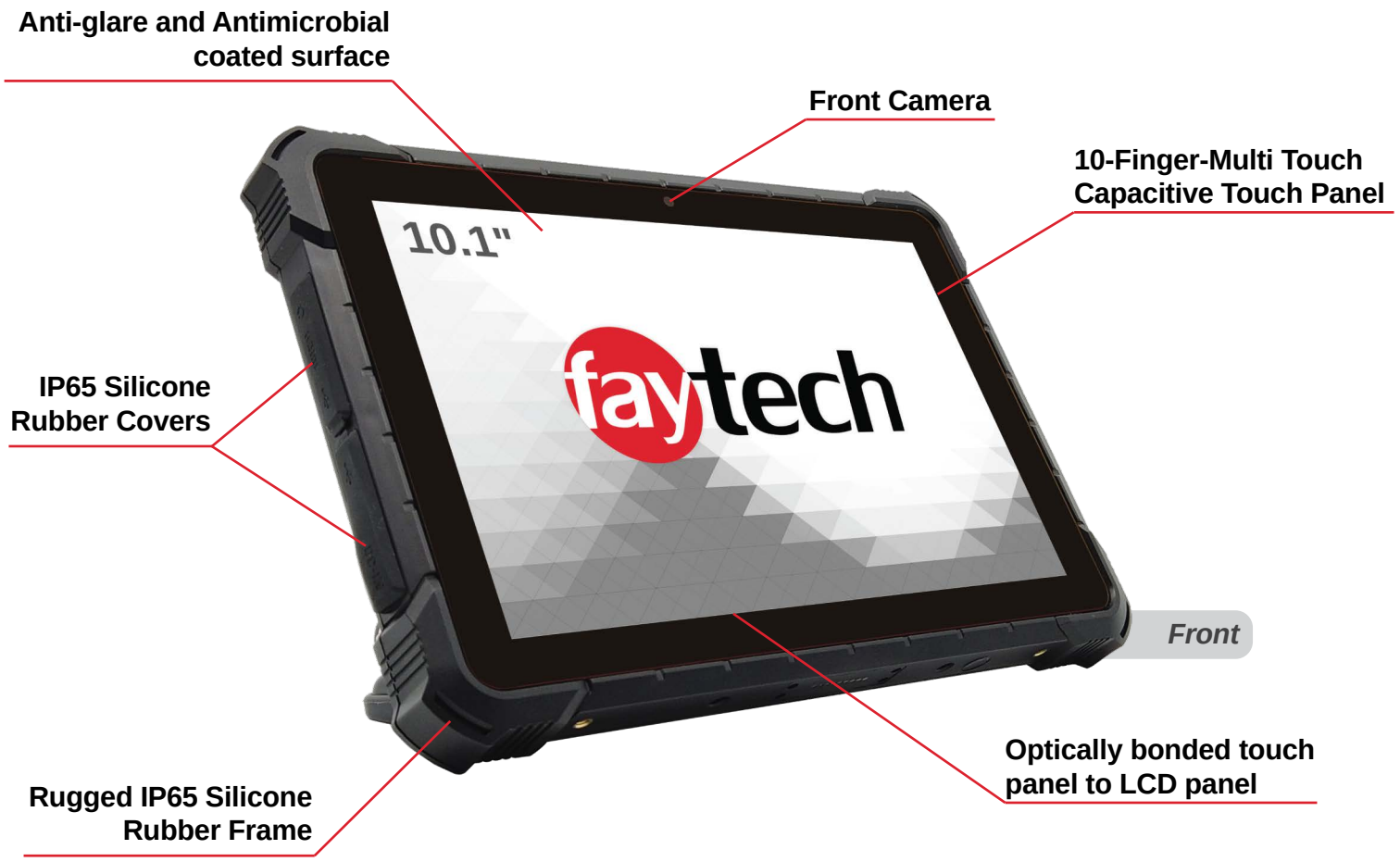
Included in the Delivery	
Power Supply (see Power section)	Short Installation Manual
VESA 75 back plate (to allow VESA 75 mounting)	

PC System	
CPU	Intel® Pentium® QuadCore N4200
Graphic GPU	Intel® HD Graphics 505
Audio	Realtek ALC3236 Audio CODEC
Memory	6GB DDR3 1600
Storage	faytech Industrial 128GB SSD
Network	1x Realtek PCIe GB LAN 8111G; Wi-Fi 802.11 ac (see Wi-Fi specifications)
Bluetooth	Bluetooth 4.0 (high speed data transfer)
Preinstalled OS	Windows 10 IoT

Touch Panel	
Touch Technology	Projected Capacitive 10-Point Multitouch
Touch Connector	USB
Touch Life (Contacts)	Unlimited
Surface Hardness	7H
Surface Treatment	Anti-glare (chemical etching)
Glass Strengthening	Chemically Strengthened
Additional Coating	Kastus® 24/7 Antimicrobial Coating (3-in-1)

Power	
Built-in Battery	Rechargeable Lithium Battery, 7.4V/6000mAh
Power Supply	100-240V ACDC active switching; 12V DC-Out
Working Power (V)	12
Power Consumption (W)	12
Stand-By Consumption (W)	<1

External Connectors	
1x 12V DC-In (to recharge)	1x Micro HDMI (class D)
1x USB 3.0	1x USB 2.0
1x Micro USB	1x Headphone port (3.5mm)
1x 10/100/1000Mbit RJ45 Ports	1x COM port (RS232)
1x TF card slot (Micro SD)	



Peripherals

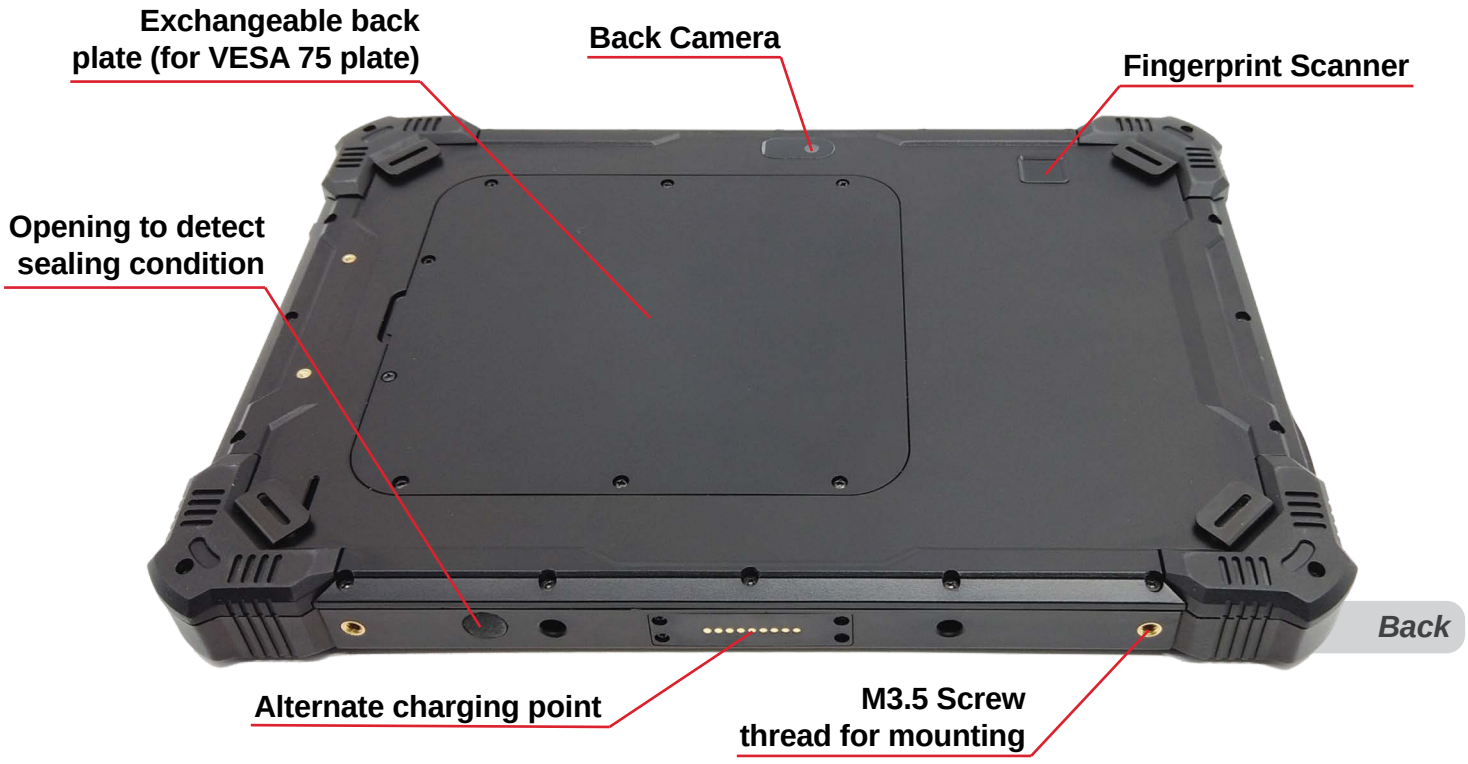
GPS Specifications (UB-118)		
Product Name	UB-118	
Chipset	High performance BD2/GPS chipset	
Frequency	GPS L1 1575.42 MHz / BD B11561.098MHz	
Power Consumption	100mW	
TTFF (Time to first fix)	Hot start: 1s	Cold start: 32s
Accuracy (position)	Autonomous <2.5m RMS	DGNSS <1m RMS
Acuracy (velocity)	GPS(+BDS) 0.1m/s RMS	BDS 0.2m/s RMS
Accuracy (time)	100ns	
Sensitivity (acquisition)	BDS -145dBm	GPS -147dBm
Sensitivity (tracking)	BDS -160dBm	GPS -162dBm
Protocol	NMEA 0183 (compatible with BDS)	
Maximum altitude	< 50,000 meter	
Maximum velocity	< 500 m/s	
Maximum acceleration	< 4G	

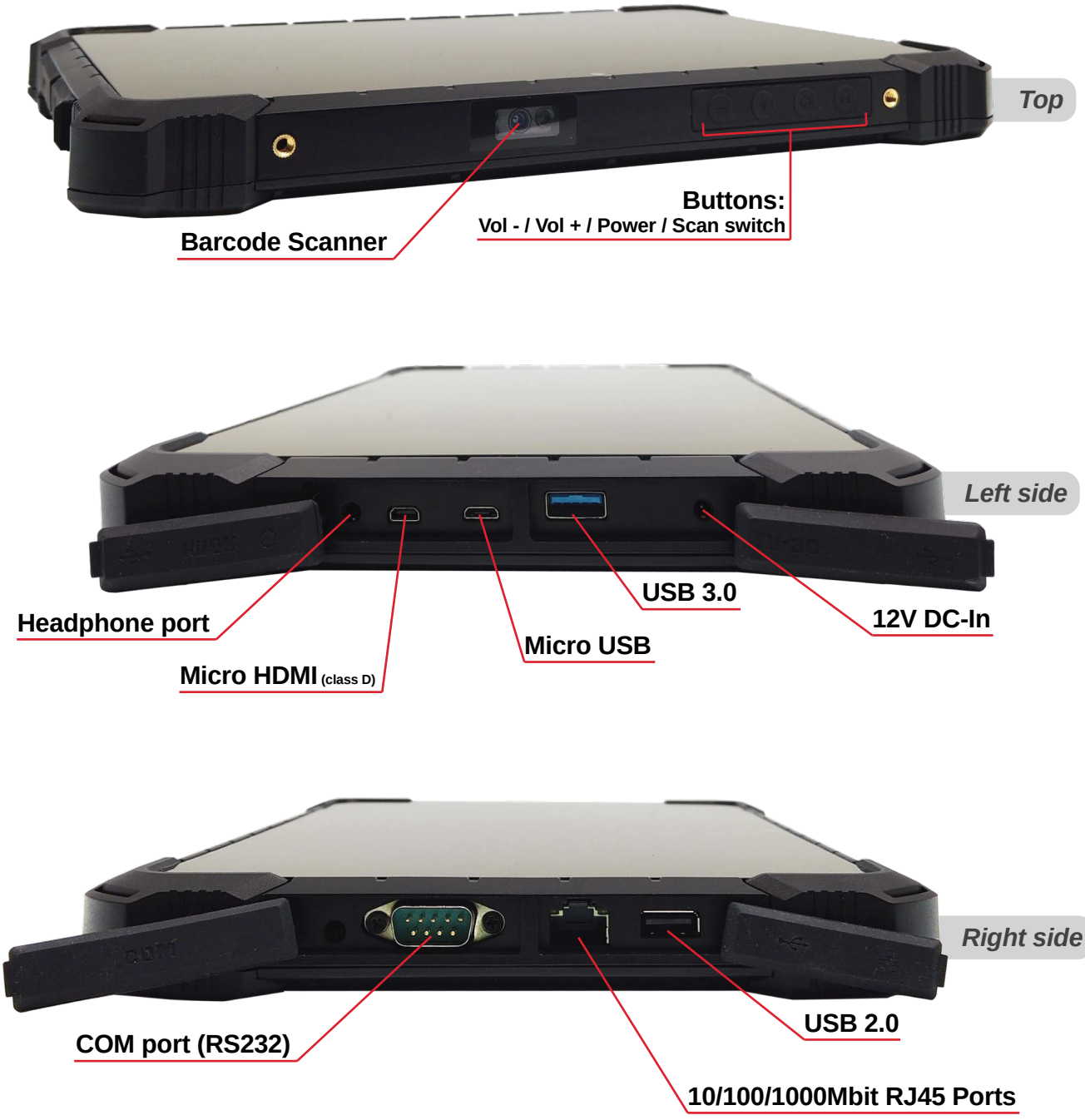
Wi-Fi & Bluetooth Specifications (6221-PUC)	
Product Name	6221C-PUC
W-LAN Applications	5 GHZ 802.11ac or 2.4G/5G 802.11n
Supports	20/40MHz at 2.4 GHz and 20/40/80MHz at 5GHz
Interface	Low power PCI-e interface for WLAN and USB/PCM interface for Bluetooth
Bluetooth	Bluetooth V4.2+HS, BLE and backwards compatible with Bluetooth 1.2, 2.X+ enhance data rate
	Supports WLAN-Bluetooth coexistence and ISM-LTE coexistence
	Supports Bluetooth for class1 and class2 power level transmissions without requiring an external PA
	BT host digital interface: • USB 1.1 • PCM for audio data

Fingerprint Scanner Specifications (MB-X4)	
Purpose	Register & unlock device (Windows 10)
Pixels / resolution	88×88px / 508 DPI
Storage capacity	100 unique prints (multiple fingers & accounts)
Unlocking time	<1s
FRR / FAR	<2% / <0.002%
Communication interface / UART	SPI / 57600
Additional features	build-in "Smart Learning" algorithm, allowing fingerprint matching to be faster over time
	Accepts 360° (degrees) fingerprint matching

Barcode Scanner Specifications (LV 3296)		
Product Name	LV 3296 OEM Scan Engine	
Image Sensor	640×480 CMOS	
Light Source	Red LED 625 ± 10nm	
Symbologies	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code
	1D	Code128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBar (RSS), (RSS-14, RSS-Limited, RSS-Expand)
Resolution	≥ 5mil	
Typical Depth of Field	EAN-13	45mm - 380mm (13mil)
	Code 39	30mm - 180mm (5mil)
	Data Matrix	20mm - 115mm (10mil)
	QR Code	25mm - 165mm (15mil)
	PDF 417	30mm - 125mm (6.67mil)
Resolution	≥ 30% reflectance difference	
Scan Angle	Roll: 360°, Pitch: ±50°, Skew: ±50°	
Field of View	Horizontal 44°, Vertical 33.2°	

Camera Specifications (front & back)		
Camera	**Front (screen side)**	**Back**
Pixels	200W	500W
Pixel Size	1/5 inch	1/5 inch
Image Resolution	1600×1200	2592×1944
Image transfer rate	30 frame/sec @ 24MHz	
White balance (AWB)	Auto	
Exposure control (AEC)	Auto	
Output signal	YCbCr4:2:2, RGB565, Raw Bayer	





Update Notes:

Version:		Changes:
v1	-	First version

Errata and technical modifications reserved

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This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21 Information to the user.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 15.105 Information for the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with theinstructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connecting the equipment to a socket on a circuit different from that to which the receiver is connected.
- Contact with the provider or a radio f TV technician for help.

Specific absorption rate (SAR):

This Tablet PC meets the government's requirements for exposure to radio

waves. The guidelines are based on standards developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a margin of safety designed to ensure the safety of all people regardless of their age or health.

The FCC Statement of Exposure to RF and the SAR limit for the United States (FCC) is 1.6 W/kg average for each gram of tissue. This device was tested for typical operations of use on the body, with the back of the Tablet PC at 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a distance of 0mm between the user's body and the back of the Tablet PC. The use of belt clips, covers and similar accessories must not contain metallic components in their assembly. The use of accessories that do not meet these requirements may not meet FCC RF exposure requirements and should be avoided.

Functioning in the body

This device was tested for typical operations of use in the body. To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained between the user's body and the telephone, including the antenna. Third-party accessories such as belt clips. covers and similar accessories used with this device should not contain metallic components, accessories that do not meet these RF exposure requirements and should be avoided from use on the body. Use only the supplied antenna or an approved antenna.