

10.1" Industrial Tablet IP65 N100

FT101N100TCAPHBOB



*Preliminary Datasheet

- Intel® Processor N100 QuadCore CPU
- 16GB RAM memory, 128GB eMMC storage
- Pre-installed Win 11 OS (license optional, standard included in EU)
- Rechargeable lithium battery, 7.4V/7000mAh (8.6+ hours operation)
- Kastus® 24/7 anti-viral & anti-bacterial coating
- Anti-glare surface treatment (chemical etching)
- 1000 cd/m² brightness (suitable for outdoor use)
- 10-Finger-multi touch capacitive touch panel
- 1.8mm cover glass with 7H surface hardness (IK08)
- Optically bonded touch panel to LCD panel
- Complete IP65 water- and dust proof
- Integrated W-LAN & Bluetooth 5.2
- Built-in front & back camera and microphone
- Integrated barcode scanner & fingerprint scanner
- 2 year guarantee (24/7 usage)



faytech's industrial (ruggedized) tablet is the perfect 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 (with all covers closed), has a 10-finger capacitive multi touch panel and 24/7 anti-viral & anti-bacterial coating by Kastus®, with a kill rate of >99% against surface bacteria, traditional viruses, and human coronavirus (3-in-1 protection).

The rechargeable lithium battery will easily get you through your workday when needed, especially in an indoor or semi-indoor environment such as a factory floor or office. The battery lifetime depends on the brightness and active usage (it can last up to 8.6 hours of operation, without any stand-by mode).

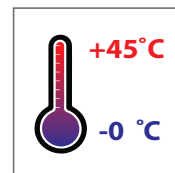
The tablet has an optically bonded touch panel, which will improve the stability, reduce the reflection, increase the viewing angle, and enhance the perceived brightness. It also provides resistance to dust particles and shows a better image in general.

The device is powered by faytech's industrial Alder Lake-N mainboard. It is driven by the powerful Intel® N100 QuadCore processor with up to 3.40 GHz clock frequency. It is equipped with 16GB RAM and 128G storage.

Due to its robust design, the tablet is particularly suitable for use in harsh environments such as industrial, rough and outdoor areas. Besides the mobile solution, the device can also be used as a permanently installed control panel. Windows 11 is pre-installed on the device but license is only included for clients in EU, this can also be purchased separately (available under accessories).



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



Product name				10.1" Industrial Tablet IP65 N100			
Model number / EAN number				FT101N100TCAPHBOB / 6920734000388			
Global Article Code 3030515944	European Article Code 4010077991	Release date (DMY) 01/09/2023	Version v1	Global Article Code	European Article Code	Release date (DMY)	Version

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 - USB Type-C	1920×1200
Colours displayed	16.7M
Brightness (cd/m ²) - after incl. touch panel & optical bonding	1000
Contrast	800:1
Typical reaction time Tr / Tf (ms)	25 / 25
Visual Angle horizontal / vertical (°)	178 / 178
Backlight / Backlight Lifetime (hours)	LED / 100,000

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	280.3 × 198.3 × 36.0
Mounting	VESA 75 4x M3.5 screw thread

Included in the Delivery	
Power Supply (see Power section)	Short Installation Manual
Plastic Screen Protector	VESA 75 back plate (attached to tablet)
Battery (inside)	

PC System	
CPU	Intel® Processor QuadCore N100
Graphic GPU	Intel® UHD Graphics
Audio	Realtek ALC269 Audio CODEC
Memory	16GB LPDDR5
Storage	128GB UFS2.1
Network	1x Realtek PCIe GB LAN 8111G; Wi-Fi 802.11ax (see Wi-Fi specifications)
Bluetooth	Bluetooth 5.2 (high speed data transfer)
Microphone	Integrated (behind cover glass)
Preinstalled OS	Windows 11 (with license option available, standard included in EU)

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)	
Touch Firmware	Included	Works with fingers, gloves & in rainy conditions
	Download from website	Works with capacitive touch stylus

Power		
Power Indicator	Green / Red LED	
Built-in Battery	Rechargeable Lithium Battery, 7.4V/7000mAh	
Power Supply	100-240V ACDC active switching; 12V DC-Out	
Working Power (V)	12	
Power Consumption / Active Working Time (w/o stand-by mode)	25% brightness, idle mode (indoor / semi-indoor)	6W / 8.6 hours minimum
	50% brightness, 50% full usage (semi-indoor)	10W / 5.2 hours minimum
	100% brightness, 100% full usage (outdoor)	15.5W / 3.3 hours minimum
Stand-By Consumption (W)	<1	

External Connectors	
1x 12V DC-In (to recharge)	1x Micro HDMI 1.4 (class type D)
1x USB 3.0	1x USB 2.0
1x Micro USB 2.0	1x COM port DSUB9 (RS232)
1x Headphone port - Ear out only (3,5mm)	1x 10/100/1000Mbit RJ45 Port
1x Micro SD card slot (TF - TransFlash)	

LED light indicator

1000 cd/m² brightness (suitable for outdoor use)

Front camera

Rugged IP65 silicone rubber frame

Integrated microphone (behind cover glass)

IP65 silicone rubber covers

10-Finger-multi touch capacitive touch panel

Front

Anti-glare chemical etching with anti-viral & anti-bacterial coating (active for the entire product lifecycle)

Optically bonded touch panel to LCD panel



Peripherals

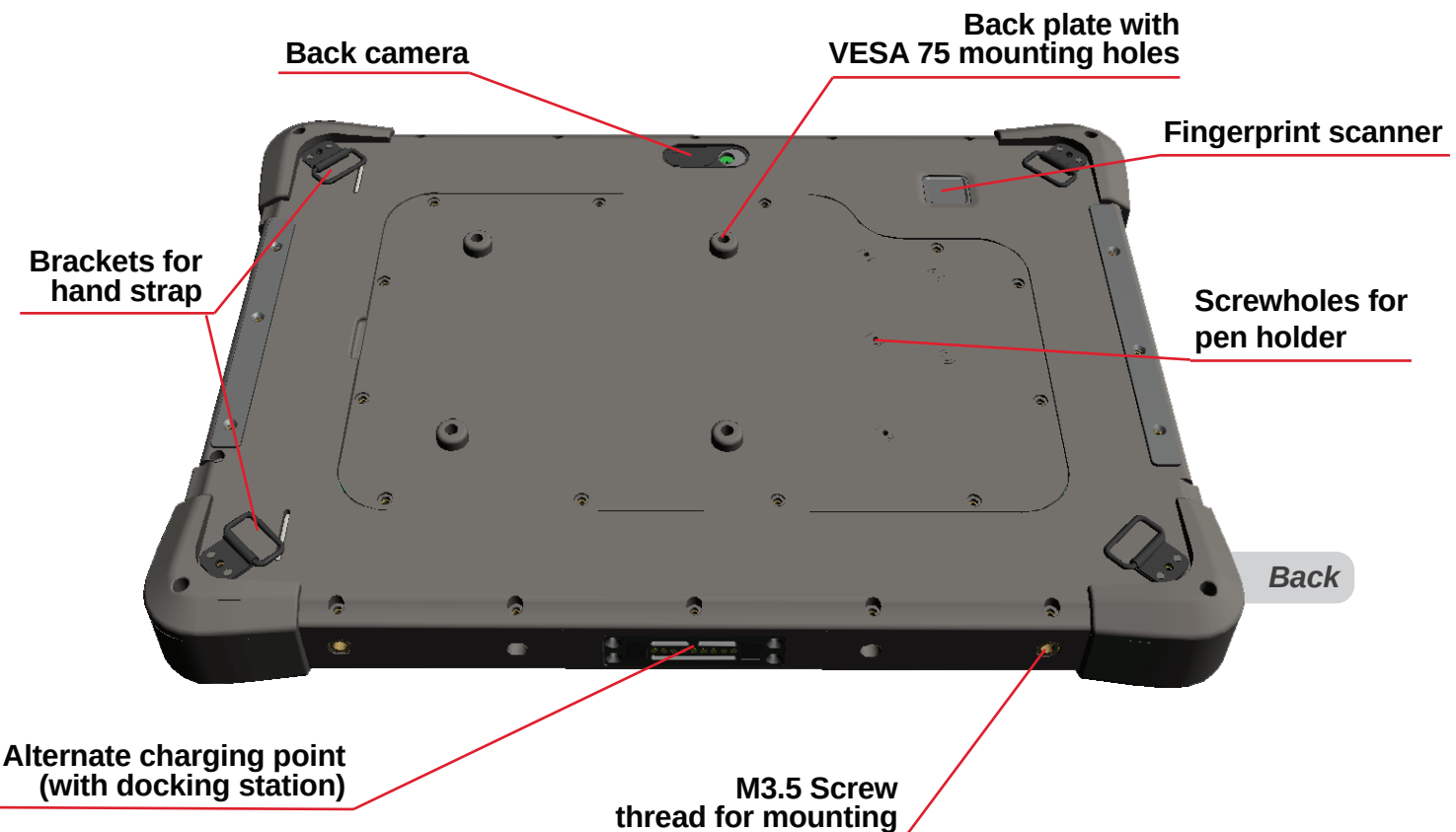
Wi-Fi & Bluetooth Specifications (AX101)	
Product Name	Intel® Wi-Fi 6 AX101 Module
Wi-Fi	new 802.11ax standard, increased capacity, faster speed, better coverage, extended battery
Band Channels	2.4GHz and 5GHz (80 MHz channels)
Wi-Fi Alliance certifications	Wi-Fi CERTIFIED 6, Wi-Fi CERTIFIED a/b/g/n/ac, WMM, WMM-Power Save, WPA2, WPA3, WPS, PMF, Wi-Fi Direct, Wi-Fi Agile Multiband and Wi-Fi TimeSync
IEEE WLAN Standard	IEEE 802.11-2016 and select amendments (selected feature coverage) IEEE 802.11a, b, d, e, g, h, i, k, n, r, u, v, w, ac, ax; Fine Timing Measurement based on 802.11-2016
Bluetooth	Bluetooth 5.2

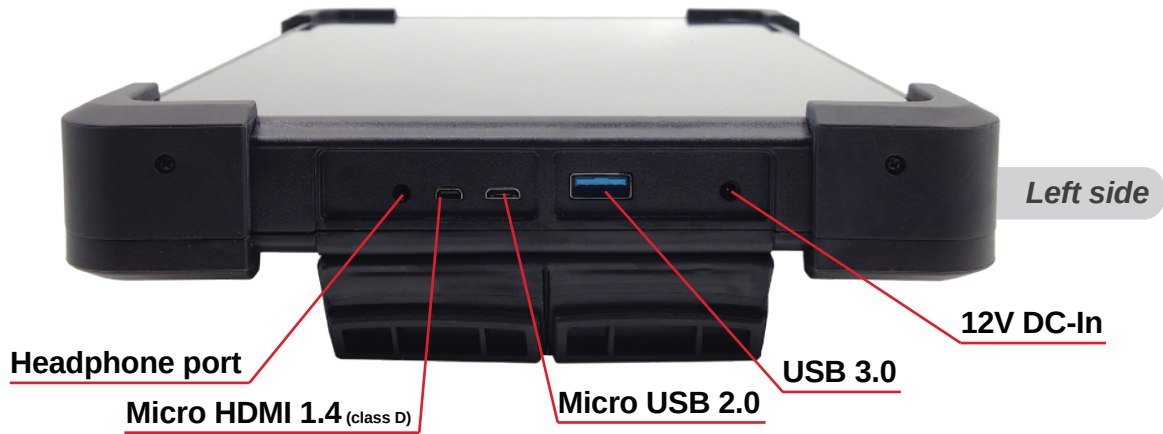
Fingerprint Scanner Specifications (MB-X4)	
Purpose	Register & unlock device (Windows 10)
Pixels / resolution	88×88px / 508 DPI
Storage capacity	100 unique prints (multiple fingers & accounts)
Unlocking time	<1s
FRR / FAR	<2% / <0.002%
Communication interface / UART	SPI / 57600
Additional features	build-in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

OPTIONAL (not included in standard version) 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
Accuracy (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

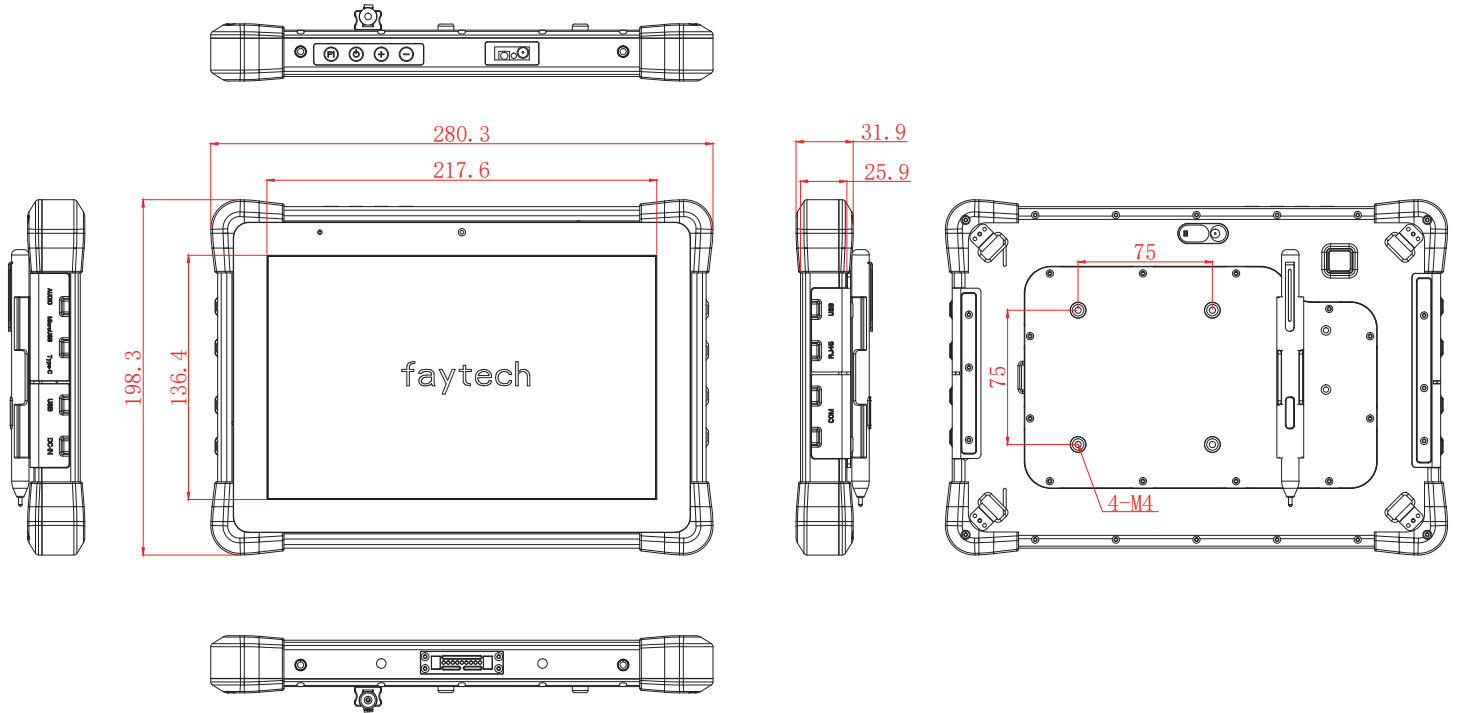
Barcode Scanner Specifications (N4680)	
Product Name	Honeywell N4680 Decoded 2D Scan Engine
Sensor	640×480 CMOS, 60 frames per second
Illumination Wavelength	Warm white IED with CCT 3000K
Aiming Wavelength	630nm Red LED
Scan Angle	Roll: 360°, Pitch: ±50°, Skew: ±50°
Field of View	Horizontal ±20°, Vertical ±15°
Motion Tolerance	6 m/s
Maximum image capture rate	120 frames per second
Supported Symbolologies	1D, 2D barcodes, OCR, Poorly printed & on-screen bar codes
Typical Depth of Field	C39 36mm - 747mm (5-10-20 mils)
	100% UPC-A 46mm - 390mm (13 mils)
	C128 33mm - 598mm (5-10-20 mils)
	PDF417 42mm - 490mm (7-10-20 mils)
	QR-Code 40mm - 367mm (7-20 mils)
Data Matrix 40mm - 182mm (10 mils)	

Camera Specifications (front & back)		
Camera	Front (screen side)	Back
Pixels	2MP (200W)	5MP (500W)
Pixel Size	1.75*1.75um	1.4*1.4um
Image Resolution	1600×1200	2592×1944
Image Transfer Rate	30 frames/sec	15 frames/sec
Lens Size	1/5 inch	1/4 inch
Optical Field of View	60°	73°
Glass finish (in front of lens)	Polished glass	
Output Formats	RAW RGB, RGB 565/555/444, CCIR656 YUV422/420, YCbCr422, and compression	





Drawing



Tolerance: $\pm 1\text{mm}$

* Capacitive Touch Stylus & Holder not included in standard version (for reference only)

Revision History

Update Notes:

Version:

v1

Changes:

-

First version

Errata and technical modifications reserved

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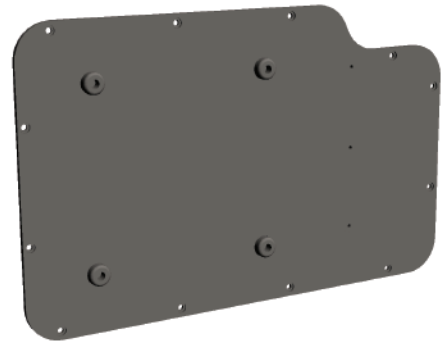
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Included Accessories

VESA 75 back plate (attached to tablet)

Product name				VESA 75 back plate			
EAN number				N/A			
Global Article Code	European Article Code	Release date (D/M/Y)	Version	Global Article Code	European Article Code	Release date (D/M/Y)	Version
-	-	23/07/2023	v1				

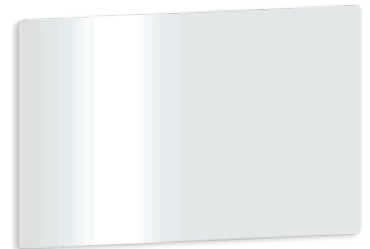


- VESA 75 holes for solid mounting
- Complete black PC-ABS back-plate
- Screw holes for capacitive touch stylus holder

Battery (inside)

Power Supply

Plastic Screen Protector



Optional Accessories

Standard Tablet Docking Station

Product name				Tablet Docking Station			
EAN number				N/A			
Global Article Code	European Article Code	Release date (DIM/Y)	Version	Global Article Code	European Article Code	Release date (DIM/Y)	Version
3030509073	1010502266	01/10/2021	v1				



- Easy 9-pin holder, to charge industrial tablet
- DC-In interface with Input voltage 12V/2.4A (power supply included)
- 4 USB 2.0 ports connected to the tablet directly when mounted
- Reliable plastic case, easy to handle and mount

Capacitive Touch Stylus

Product name				Capacitive Touch Stylus			
Model number / EAN number				FTCAPSTYLUS / 6920734091065			
Global Article Code	European Article Code	Release date (DIM/Y)	Version	Global Article Code	European Article Code	Release date (DIM/Y)	Version
20205003213	1010501169	01/11/2020	v1				



- Easy-to-use capacitive touch stylus
- Perfect accessory for the faytech flat
- Light and durable aluminum housing
- Requires different touch firmware for tablet, download from www.faytech.com/downloads/ or contact your sales representative

Capacitive Touch Stylus Holder

Product name				Capacitive Touch Stylus Holder			
EAN number				N/A			
Global Article Code	European Article Code	Release date (DIM/Y)	Version	Global Article Code	European Article Code	Release date (DIM/Y)	Version
3030509850	-	01/03/2022	v1				



- Holder for clicking Capacitive Touch Stylus to back of tablet
- High quality black TPU plastic holder
- Iron connection plate for solid mounting
- Includes 3 black-coated stainless steel screws (KM2*5)

Hand Strap

Product name				Hand Strap			
EAN number				N/A			
Global Article Code	European Article Code	Release date (DIM/Y)	Version	Global Article Code	European Article Code	Release date (DIM/Y)	Version
3030509327	1010502267	01/10/2021	v1				



- Black leather hand holder with straps
- Comfortable, light-weight & easy to hold
- Easily mountable using the tablet corner brackets