

Quick guide

ALLNET Rugged Tablet for Win/Linux

ProductNo.: 227930, 227222



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Service	Fehler! Textmarke nicht definiert.
CE	Fehler! Textmarke nicht definiert.

Package contents

Please check the contents of the packaging before proceeding with the commissioning of the display.

- ALLNET PoE display with stand
- 12V power supply unit
- Printed quick guide

General information

The device is a display that can be operated with Android or Linux. Power is supplied via a power supply unit or PoE (power via network cable). Changes to the operating instructions and the functions described are possible at any time and do not require the consent of third parties and are not covered by the warranty. If you have any questions about specific functions, please contact our sales department.

Target group of the operating instructions

The operating instructions are intended for any person using the device.

- set up,
- served,
- cleans or
- disposed of.

Conventions and symbols

The following text formats are used in these instructions. These serve to increase the clarity of the instructions.

Chapter heading

Subheading

Simple text

Important information in plain text

Designates buttons, components, functions

Warnings

The warnings in these operating instructions are structured according to the following scheme:



The signal word "**DANGER**" indicates a warning of immediate danger to life!



The signal word "**WARNING**" indicates a warning of possible danger to life and/or serious irreversible injuries!



The signal word "**CAUTION**" indicates a warning of possible moderate or minor injuries!



The signal word "**CAUTION**" indicates possible material damage.



"**Note**" indicates useful or important information about the product.

Guidelines and standards



This device complies with the following directives:

EMC Directive 2014/30/EU

Radio Equipment Directive 2014/53/EU

Eco-Design Directive 2009/125/EC

RoHS Directive 2011/65/EU.

Hereby, ALLNET Computersysteme GmbH declares that the ALLNET PoE Displays are in compliance with the essential requirements and other relevant provisions of the following directives and Directive 2014/53/EU.

The full text of the EU Declaration of Conformity is available at the following Internet address: <http://ce.allnet.de> and at the end of the instructions.



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EU contact details:

ALLNET GmbH Computersysteme Maistrasse 2 82110 Germering

Phone +49 (0)89 894 222 - 22

Fax +49 (0)89 894 222 - 33

Email: info@allnet.de

Disposal of the packaging



Choking hazard due to foil and other packaging materials. Do not leave the packaging and its parts to children. Dispose of the packaging in an environmentally friendly manner. Ask the dealer or the municipal waste disposal facility about options for disposing of the packaging in an environmentally friendly and appropriate manner.

Packaging Ordinance

This product contains the following materials:
Outer packaging: cardboard box PP02
Inner packaging: Polyethylene PE04
Other: Paper

Disposal of the device



Old appliances are not worthless waste. Valuable raw materials can be recovered through environmentally friendly disposal. This appliance is labeled in accordance with Directive 2002/96/EC on waste electrical and electronic equipment (WEEE). At the end of its service life, this appliance must not be disposed of with normal household waste, but must be handed in at a collection point for the recycling of electrical and electronic equipment. This is indicated by the symbol on the product, the instructions for use or the packaging. The materials are recyclable according to their labeling. The reuse, recycling or other forms of recovery of old appliances make an important contribution to protecting the environment. Ask your dealer or local waste disposal facility about the options for disposing of the appliance in an environmentally friendly and appropriate manner.



As a consumer, you are obliged to take all batteries and rechargeable batteries, regardless of whether they contain harmful substances or not, to a collection point in your municipality/district or to a retailer where they can be disposed of in an environmentally friendly manner.



Permanently installed appliance batteries or rechargeable batteries may remain in the appliance when disposed of via the collection point.

General security

DANGER

The product is intended solely for the purpose for which it was designed. Only use the product as described in the operating instructions. Any other use is considered improper and may result in material damage.

The manufacturer or dealer accepts no liability for damage caused by improper or incorrect use. All safety instructions must be read carefully and these operating instructions must be kept for future reference. All warnings and instructions in these operating instructions must be followed.

Keep the operating instructions and pass them on to any subsequent owner.

DANGER

Safety instructions for handling the plug-in power supply unit

The plug-in power supply unit may only be connected to a **mains voltage of 100-240 V~, 50/60 Hz.**

Never operate the plug-in power supply with any other voltage.

RISK

- Only use power supply units that are approved for this device.
- Only connect the plug-in power supply after the installation has been completed correctly.

RISK

- Only connect the appliance to a properly installed and earthed mains socket. The mains voltage must match the specifications on the appliance's rating plate.
- The socket outlet should be as close as possible to the appliance.
- Avoid the use of multiple sockets. Ensure that the mains cable or plug is always easily accessible so that the appliance can be quickly disconnected from the power supply.
- Lay the mains cable so that no one can trip over it.
- Plug the mains adapter fully into the socket.

WARNING

- Do not touch the plug-in power supply unit with wet hands, risk of electric shock.
- If the plug-in power supply unit is defective or if the appliance is damaged in any other way, it must not be put into operation.
- Do not pull the plug-in power supply unit out of the socket by the cable.
- The appliance remains connected to the mains even when it is switched off. Unplug the mains adapter from the socket if the appliance is to be used for a longer period of time.

- period is not used.
- In the event of malfunctions or smoke and odors coming from the housing, immediately unplug the power supply unit from the socket.

WARNING

Safety instructions for setting up the appliance

- DO NOT place the appliance near radiators, air conditioners or water sources. Otherwise there is a risk of electric shock, short circuits or fire, as water may come into contact with the appliance.
- Make sure that the humidity is between 20 % and 80 % and that no condensation forms.
- Ensure that the device is NOT exposed to direct sunlight, extreme heat, naked flames or dust. Otherwise there is a risk of
- electric shock, short circuit or fire.
- The device is designed for use in closed rooms.
- The openings on the back of the appliance are used for ventilation to prevent the appliance from overheating. These must always be kept clear.
- To avoid damage, always place the product securely.

CAUTION

Safety instructions for operating the appliance

- Read these operating instructions carefully before using the appliance!
- The device can only be operated with the voltage described on the back and on the power supply unit.
- Replace any existing batteries only with the same or an equivalent battery.
- Battery type
- Do not use any appliances that are obviously faulty. If the appliance does not work normally - especially if unusual noises or odors occur - unplug the power plug from the socket immediately.
- If the cables are damaged, the appliance must no longer be used.
- Do not place the appliance on an unstable surface. The appliance could be damaged or people could be injured. Any fixings should only be fitted in accordance with the manufacturer's instructions or obtained from the manufacturer.
- Do not expose the device and the remote control to direct sunlight. This impairs the function and could lead to damage
- Do not use the appliance in a damp environment or near gas flames, hotplates or other hot objects.

- Keep the appliance dry.
- Protect the device from the effects of weather such as wind, rain, humidity and moisture.
- Do not permanently display a still image. This could damage the display.
- Do not open the housing, but contact your specialist dealer or the manufacturer for repairs.
- Work may only be carried out on the appliance if it is disconnected from the power source.
- was separated.
- Ensure that the appliance is only operated by persons who have read the instructions or have been instructed in its operation by a competent person.

 **RISK**

Safety instructions for repair and maintenance

- Repairs and maintenance work may only be carried out by customer service or by specialist personnel authorized by the manufacturer. Incorrect repairs can result in considerable danger to the user.
- Regular maintenance by the manufacturer is not necessary.
- Never attempt to repair a defective appliance yourself. Always contact one of our customer service centers.
- Do not open the appliance under any circumstances. This may only be carried out by customer service or by specialist personnel authorized by the manufacturer. Otherwise there is a risk of electric shock.
- Operators may only rectify faults themselves if they are obviously due to operating errors.
- Clean the display regularly.
- Disconnect the mains plug from the socket before cleaning.
- Do not use liquid cleaners or cleaning sprays. The appliance may only be cleaned with a damp cloth.
- It is prohibited to make modifications to the appliance.
- Damaged devices or damaged accessories may no longer be used.

 **NOTICE**

Intended use

The tablet is suitable for both commercial and private use.

We cannot accept any liability for non-functioning third-party apps from the Playstore and this is not a defect or warranty case. If you do not have in-depth experience with the Android operating system, please contact our hotline beforehand. The tablet is a display with operating system and can be supplied with power via battery, docking station and mains adapter. A battery is integrated. The operating system is Windows IoT (pre-installed without license), Linux can be installed (n. installed). This device complies with CE regulations.

The manufacturer accepts no liability for damage caused by improper use. Read the operating instructions carefully before commissioning. Only then can all functions be used safely and reliably.

Operating conditions

The device is designed for use in enclosed spaces and must be protected from excessive dust, extreme temperatures, moisture and condensation. The environmental requirements are specified as follows: **Operating conditions:**

Temperature 0° - +60°

Humidity 20% - 80% non-condensing

Storage conditions:

Temperature 0° - +60°

Humidity 10% - 90% non-condensing

Technical details

- Intel Jasper Lake, Quad-core (N5100, 1.1 - 2.8GHz)
- Resolution: 1920x1200 10" inch; HighBrightness 800nits
- Windows IoT pre-installed, no license Windows can be installed
- 10-point capacitive multi-touch screen
- for 10" inch 8GB/128GB
- 5MP front/ 8MP rear camera
- 10000mA rechargeable battery 3.8V Li-Ion
- IP67 certification for closed covers
- Dual microphone
- Ethernet 100/1000M RJ45
- WLAN Wi-Fi 5 AC(IEEE 802.11 2.4/5GHz a/b/g/n/ac)
- Bluetooth 4.0 (2.4GHz)
- 1.2W dual loudspeaker
- HDMI output
- USB3.0 Host/ USB OTG (Upgrade)/ SD Card
- Power supply unit: 12V/3A
- Operating temperature: -10°C ~ 50°C
Operating humidity: 10% ~ 90% (non-condensing)
Storage temperature: -30°C ~ 80 °C
Storage humidity: 10% ~ 90% (non-condensing)
- Labeling: Ce/RoHS
- Dimensions 275*179.2*21.8 mm

Communication details

WWAN	Option: EC-25EC (Europe/Middle East/	WIFI	802.11a/b/g/n/ac, 2.4G+5.8G Dual-band
WIFI	Africa/Korea/Thailand)	Bluetooth	Bluetooth 4.0 (BLE) class1,
Transmission	LTE FDD: B1/B3/B7/B8/B20/B28Arange		: 10m
	WCDMA: B1/B8	GNSS	U-blox GPS+GLonass
	GSM: B3/B8		

Advanced functions

NFC module	Optional 13.56MHz, support	ID Card Recognition	Optional ID card recognition
RFID scanner, 2 choose 1	14443A/14443B/15693	Barcode scanner	Optional 1D/2D barcode
	Optional RFID/HF RFID/UHF RFID		

Power

Power input	12V DC input, 12V/3A power adapter	Battery Life	8 hours (Play 1080P video under LCD
50%)
Battery	10000mAh, removable 3.8V Li-Ion batterybacklight		

Surroundings

Drop	1.2m free fall to the wooden floor	Operating Temp.	-10°C~50°C
IP rating	IP67	Storage Temp.	-30°C~70°C

Certificates

Certificate	CE、ROHS、UN38.3、MSDS、IEC62133
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Dimensions Weight

Dimension (W x H x D)	275*179.2*21.8 mm	Weight	2.2 KG
		Color	Black

Accessories

Accessory	Hand strap, 12V/3A power adapter
Optional Accessory	Docking, Vehicle bracket, Vehicle charger, Passive touch pen, Type-C data cable, Type-C OTG cable

Product appearance

1. upper housing section (connections with open rubber plugs)



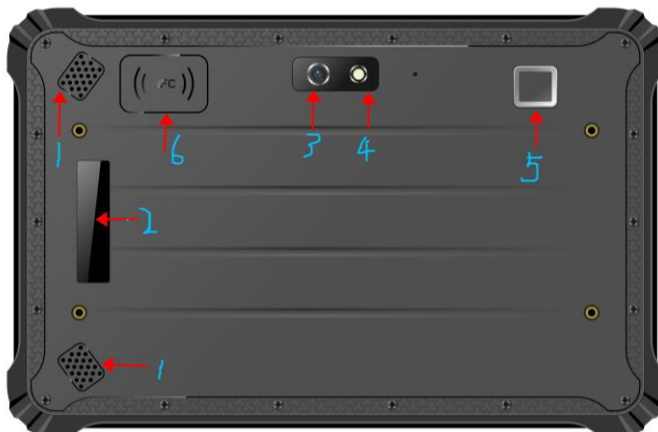
1. Pogo pen : Used to extend the dock, keyboard, etc.
2. Pogo pin pin hole : Used to attach the machine to the base
3. DC hole: Connect the adapter to charge the device
4. Type A port: USB devices can be connected
5. Type-C port : supports the OTG function
6. Headphone socket : for audio output
7. HDMI: High-definition audio and video output
8. User-defined keys
9. On/off button
10. Volume+
11. Volume -
12. User-defined keys
13. TF card slot and SIM card slot
14. Dual airline connector, reserved for extensions
15. Serial RS232 interface (10-inch products only)
16. RJ45, 100 Gigabit Ethernet port

Front components



1 front camera lens
2 Charging indicator.
3 MIC: Microphone for receiving sound for recording

Components on the back



- 1 loudspeaker: double loudspeaker, sound output.
- 2 breathing openings.
- 3 Scan button: professional scanning of a 2D code (customizable)
- 4 Rear camera
- 5 Fingerprint sensor for fingerprint recognition, comparison. (customizable)
- 6 NFC/RFID reader (optional) Reads data from electronic NFC and RFID roll labels. (customizable)
- 7 Battery lock: Three locks hold the removable battery simultaneously.

Note:

1 Depending on the model purchased, the appearance of the tablet may differ from the illustration in this manual.

2 The connection is only visible when the protective cover is open. Keep the cover completely closed when the port or device is not in use to make it water and dust proof. (If the cover has a latch, please ensure that it is locked).

Battery

The light symbol flashes red during the charging process. When charging is complete, the light turns red.

If the battery power is less than 10%, the light flashes red (once per second). If the high temperature protection function is abnormal, the light flashes red rapidly (once every half a second). In this case, please send the tablet PC in for repair.

Connect the power supply

Plug the DC cable of the power supply unit into the power socket of the Robust flat plates.

Note: Only use the power supply unit supplied with this product. Using other power supplies may damage your computer. AC power must be connected for activation when switching on without a power supply.



Battery guidelines

① When using the battery, try to use up all the energy before charging and charge it fully immediately. This will prevent damage to the battery.

② Batteries are consumables and the following circumstances will shorten their service life.

- Frequent charging of the battery
- Use, charge or store batteries in hot environments

③ In order not to accelerate the aging of the battery and to extend its service life, the number of charging processes should be minimized to avoid a frequent increase in its internal temperature.

④ Charge the battery within a temperature range of 10 °C ~ 30 °C (50 °F ~ 86 °F). Higher ambient temperatures can cause the battery temperature to rise. Avoid charging the battery in a closed vehicle and in hot weather. In addition, the charging process will not start if the battery is outside the permissible temperature range.

⑤ It is recommended not to charge the battery several times a day and not to charge the battery while the machine is switched off.

⑥ When using battery power at extremely low temperatures, the operating time may be reduced and the power level display may be incorrect. This phenomenon is due to the chemical properties of the battery. It is recommended to keep the operating temperature of the battery at -10 °C to 50 °C (14 °F to 122 °F).

⑦ Do not store the device for longer than six months without charging it.


Mains adapter

As your rugged tablet is powered by direct current, but the power sockets usually supply alternating current, the mains adapter is used to convert the alternating current from the power source into the direct current required by the computer. As long as the mains adapter is connected, the battery is automatically charged. The adapter can be operated in a voltage range of 100 to 240 V AC.

Notes.

- ① The power adapter is only intended for use with this tablet. Any other use may damage the connected device or the adapter.
- ② The power cord supplied with the power adapter has the specifications corresponding to the place where it was purchased. To use this flat screen abroad, please contact your dealer to obtain a suitable power cable.
- ③ If you want to unplug the power adapter from the socket, you must first unplug it from the socket and then from the computer's power connection, otherwise the tablet and the power adapter will be damaged by external voltage surges.
- ④ Do not pull on the cable when disconnecting, but hold the plug with your hand to pull it out.

Charging the battery

The battery indicator () on the rugged tablet lights up red and flashes to indicate that charging is in progress. It is recommended to charge the rugged tablet when it is switched off. When the battery is fully charged, the indicator lights up red and does not flash. The full charging time is approx. 5 hours when the tablet is switched off or 6 hours when the tablet is switched on (may take longer in cold temperatures).

- ① The battery temperature is between 0 °C (32 °F) and 50 °C (122 °F). If the battery temperature is outside this range, the charging process will not start. Charging starts automatically when the battery temperature meets the conditions.
- ② Do not disconnect the mains adapter during the charging process if it is not yet fully charged, otherwise the battery will be undercharged.
- ③ The battery's overheating protection limits the maximum battery charge at high temperatures to 80% of the total capacity. At high temperatures, a charge of 80 % corresponds to a fully charged battery.
- ④ Once the battery is full, do not disconnect and connect the mains adapter immediately as the battery may be damaged.

Install SIM card or TF card



1. remove the rubber plug of the SIM and TF card and insert the Mirco SIM card (size 12 * 15 mm) into the SIM card slot according to the direction shown in the illustration (the SIM card slot is located above the TF card slot).

Note : The metal side of the SIM card faces in the same direction as the bottom of the housing, and the missing corner of the SIM card faces outwards.



2. remove the rubber stopper of the SIM and TF card , insert the microSD card into the TF card slot according to the direction of the rubber stopper screen printing , as shown in the figure (the SIM card slot is above the TF card slot).

Note : The metal side of the TF card faces the display.



Other functions

Connect the HD monitor

If you want to use a larger screen and get a higher resolution, you can connect an external monitor to the HDMI port of your rugged tablet.

HD (High-Definition Multimedia Interface) is a high-definition audio/video interface that transmits uncompressed digital data in a high-definition format.



Use of NFC/RFID reader (optional)

If your model has an NFC/RFID reader module, you can use it to read NFC (Near Field communication - Near Field Radio Communication) and RFID (Radio Frequency Identification - Radio Frequency Identification).

(Radio Frequency Identification) data of the electronic roll label.



Scanner (optional)

If you require further applications or customization of this module, please ask us. If your model has a barcode scanner module, you can read barcodes in the following formats.

SE655-Spec-Sheet-0411 n3680-OEM-2D-Imager-Datenblatt-cn

Read barcodes.

Open the word processing software you want to use and open a new or existing file. Place the screen cursor on the desired file

Where to enter data. Press the release button on the housing without releasing it and point the green beam of the scanning lens at the barcode.



Hold the green light beam in the center of the barcode. Adjust the distance between the lens and the barcode accordingly; the smaller the barcode, the closer it is, and the larger the barcode, the further it is.

Note: If the barcode to be scanned is reflective (e.g. paper with glossy foil), it may be necessary to rotate the barcode

Tilt by +5° to avoid reflections. If scanning is successful, the system beeps, the scanning beam goes out and the decoded barcode data is entered automatically



CE-Declaration of Conformity

For the following equipment:

Germering, 22nd of March, 2024

ALLNET Rugged Outdoor Tablet **X-trail-100-Intel-2D**



The safety advice in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The ALLNET X-trail-100-Intel-2D conforms to the Council Directives of 2014/53/EU.

This equipment meets the following conformance standards:

EMC 2014/30/EU

RoHS 2011/65/EU

EN 55032:2015+A1:2020+A11:2020

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A1:2019+A2:2021

EN IEC 62368-1:2020+A11:2020

LVD 2014/35/EU

2015/863/EU

EN 55035:2017+A11:2020

This equipment is intended to be operated in all countries.

This declaration is issued under the sole responsibility of the manufacturer:

ALLNET GmbH Computersysteme

Maistraße 2

82110 Germering

Germany

Germering, 22.03.2024


Wolfgang Marcus Bauer
CEO