

faytech N4200 Capacitive Touch PC Instruction Manual

Home » faytech » faytech N4200 Capacitive Touch PC Instruction Manual



Instruction Manual

Please read this manual carefully prior to use of the product, and keep it properly.



Capacitive Touch PC (Rubber Frame) Series Apollo Lake (N4200 / N3350)

Contents

- 1 Foreword
- 2 Duty of care for the operator
- 3 Requirements for the operating personnel
- 4 General warning
- **5 Warranty**
- **6 Product description**
- 7 Installation instructions
- 8 Operating instructions
- 9 Troubleshooting
- 10 FAQs
- 11 Service and Support
- 12 Appendix
- 13 Documents / Resources
 - 13.1 References
- **14 Related Posts**

Foreword

Notes on documentation

This description is intended exclusively for trained specialists in controlling and automation technology who are familiar with the applicable national standards. For installation and commissioning of the components, it is absolutely necessary to observe the following notes and explanations. The qualified personnel must ensure that the application or use of the described products meets all safety requirements, including all applicable laws, regulations, provisions, and standards.

Disclaimer

This documentation has been carefully prepared. However, the products described are subject to continuous further development. Therefore, the documentation is not always completely checked for compliance with the described performance data, standards, or other features. If it contains technical or editorial errors, we reserve the right to make changes at any time and without notice. The information, illustrations, and descriptions in this documentation do not constitute grounds for claims for changes to products already supplied.

Copyright

© faytech AG.

Passing on and reproduction of this document, use, and communication of its contents are prohibited unless expressly permitted. All rights reserved in case of a patent, utility model, or design patent registration.

State of delivery

All components are delivered in specific hardware and software configurations depending on the application requirements. Changes to the hardware or software configuration, which go beyond the documented possibilities are not permitted and result in the exclusion of liability of faytech AG.

Explanation of the safety symbols

The following safety symbols are used in these operating instructions. These symbols are primarily intended to draw the reader's attention to the text of the adjacent safety instructions.

DANGER	Acute danger of injury! If the safety instruction next to this symbol is not observed, there is an immediate danger to the life and health of persons.
WARNING	Caution Risk of injury! If the safety instruction next to this symbol is not observed, there is a danger to life and health of persons.
CAUTION	Injury to persons! If the safety instruction next to this symbol is not observed, persons may be injured.
	damage to the environment or equipment If the note next to this symbol is not observed, the environment or equipment may be damaged.
i Note	Tip or pointer This symbol indicates information that contributes to better understanding.

Basic security measures

Before the Touch PC may be switched off, the running software must be closed as usual. Otherwise, data on the hard disk may be lost. Please read the section Switching the Touch PC on and off.

Switch off all system components, then disconnect the Fieldbus	
Before opening the Touch PC housing and whenever the Touch PC is not used for control purposes, for example during the functional test after a repair, all system parts must first be swit ched off, and then the Touch PC must be disconnected from the system. Switched-off system parts must be secured against being switched on again.	
Do not replace any parts when under voltage	
When installing and removing components, the supply voltage must be switched off. Damage can occur during installation in the Touch PC:	
If metal objects such as screws or tools are placed in the circuit boards.	
 If PC internal connection cables are pulled off or plugged in during operation. If plug-in cards are removed or inserted when the PC is switched on. 	
_	

Duty of care for the operator

The operator must ensure that:

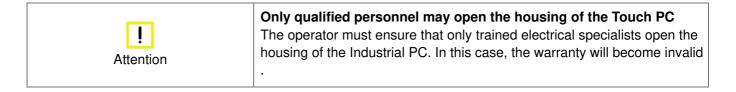
- The Touch PC is only used for its intended purpose (see chapter Product Description).
- The Touch PC is only operated in a faultless, fully functional condition.
- The operating manual is always available in a legible condition and completes at the place of use of the Touch PC.
- Only sufficiently qualified and authorized personnel to operate, maintain and repair the Touch PC.
- This personnel is regularly instructed in all applicable questions of occupational safety and environmental protection, and the operating manual and in particular the information contained therein contained in the safety

instructions.

All safety and warning notices attached to the Touch-PC are not removed and stay legible.

Depending on the type of machine and system in which the touch PC is used, there are national regulations for the control of such machines and systems which the operator must comply with. These regulations regulate, among other things, the intervals at which the controller must be checked.

The operator must arrange for this inspection within a certain period of time.



In the event of faults on the Touch PC, the list in the Troubleshooting section can be used to determine which measures should be taken.

Requirements for the operating personnel

Every user of the touch PC must have read this operating manual.

Every user must be familiar with all the functions of the software installed on the PC accessible to him/her.

General warning

If you notice a burning smell or the device is making noise, disconnect it from the power supply immediately.

Note	Cleaning To clean the device, switch it off and use a dry, soft cloth with light pressure.	
------	--	--

Warranty

faytech devices are produced following the most modern production and test processes. Carefully selected components and accurate production ensure reliable operation and long life. faytech warrants to the original purchaser that each faytech display delivered shall be free from defects in material or workmanship at the time of shipment, and that each such module delivered will meet the published specifications for a period of 24 months as measured from the date of original shipment. faytech's obligation under the Warranty contained herein is limited to the repair or replacement of any faytech touch monitor that does not meet the specifications, provided that said product is returned to faytech, transportation charges prepaid, and provided that upon faytech's examination, the product, when tested within the specified ratings and in accordance with good engineering practice, does not meet the specifications as defined. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

All claims under warranty must be made promptly after the occurrence of circumstances giving rise thereto and must be received within the applicable warranty period by faytech or its authorized representative. Such claims should include the Product type and serial numbers and a full description of the circumstances giving rise to the claim. Before any Products are returned for repair and/or adjustment, written authorization from faytech or its authorized representative for the return and instructions as to how and where these products should be shipped must be obtained. Any product returned to faytech for examination shall be sent prepaid via the means of transportation indicated as acceptable by Playtech. Playtech reserves the right to reject any warranty claim not promptly reported and any warranty claim on any item that has been altered or has been shipped by non-

acceptable means of transportation. When any Product is returned for examination and inspection, or for any other reason, the Customer will be responsible for all damage resulting from improper packing or handling and for loss in transit, notwithstanding any defect or nonconformity in the Product. In all cases, faytech has sole responsibility for determining the cause and nature of failure, and faytech's determination with regard thereto shall be final. If it is found that faytech's Product has been returned without cause and is still serviceable, the Customer will be notified and the Product returned at Customer's expense. In addition, a charge for testing and examination may, in faytech's sole discretion, be made on Products so returned.

SELLER'S LIABILITY FOR DAMAGES SHALL NOT EXCEED THE PAYMENT, IF ANY, RECEIVED BY THE SELLER FOR THE UNIT OF PRODUCT OR SERVICE FURNISHED OR TO BE FURNISHED AS THE CASE MAY BE WHICH IS THE SUBJECT OF CLAIM OR DISPUTE. IN NO EVENT SHALL THE SELLER BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES. LIABILITY TO THIRD PARTIES, FOR BODILY INJURY INCLUDING DEATH, RESULTING FROM SELLER'S PERFORMANCE SHALL BE DETERMINED IN ACCORDANCE WITH APPLICABLE LAW AND THE TOTAL LIABILITY LIMITATION STATED ABOVE SHALL NOT BE CONSTRUED AS A LIMITATION ON SELLER FOR DAMAGES FOR ANY SUCH BODILY INJURY, INCLUDING DEATH.

WARRANTY FOR ITEMS REPLACED UNDER WARRANTY Whenever a failed module is replaced under Warranty, the greater of the balance of the original Warranty Period or 90 days will constitute the remaining warranty period. The replaced unit does not carry a new Warranty.

LIFE SUPPORT POLICY "WARNING: DO NOT USE IN LIFE SUPPORT" SELLER'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE CEO OF FAYTECH. As used herein, "Life Support Devices or Systems" are devices that support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in a significant injury to the user. A "Critical Component" is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system or to affect its safety or effectiveness.

If your device does have a defect within the warranty period, please contact faytech directly. The warranty period is 24 months from the date of purchase under the following conditions:

- All warranties are void if the unit has been opened or disassembled without faytech's prior approval.
- Damage caused by improper handling or operation, incorrect installation or storage, through improper connections, as well as due to force majeure or other external influences is not covered by the warranty.
- For warranty claims, we reserve the right to replace the defective components or to exchange the device.
- Exchanged components or devices become the property of faytech.
- Claims for damages are excluded in so far as they are not based on intent or gross negligence of the manufacturer.
- After the expiration of the warranty period, warranty claims can no longer be pursued.
- Any warranty claim must be accompanied by proof of purchase (receipt or invoice).

Product description

Appropriate use

The faytech Capacitive Touch PC series are used in many different application areas (in industrial or retail applications).





Right side of the Capacitive Touch PC (15" as example)

The heart of the capacitive touch PC series is the Apollo Lake industrial mainboard, driven by either:

N4200

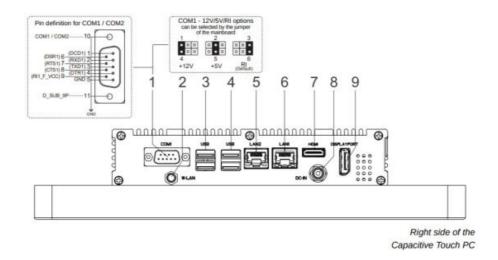
QuadCore processor with up to 2.50 GHz frequency, 4G RAM, 128G SSD and Intel ® 's HD graphics chipset, Full HD support, Direct X 11.1, and OpenGL 4.0.

N3350

An Intel ® Celeron ® N3350 DualCore processor with up to 2.40 GHz frequency, 4G RAM, 128G SSD, and Intel ® 's HD graphics chipset, Full HD support, Direct X 11.1, and OpenGL 4.0.

Interfaces

Interfaces of the Capacitive Touch PC



COM1, RS-232/422/485

The serial interface DSUB9 port for COM1 (1) can be adjusted in BIOS to RS-232, RS-422, and RS-485. See the complete pin definition and options in the illustration above.*

W-LAN Antenna

The antenna connector (2) of the Touch PC enables the connection via W-LAN with the supplied antenna. Frequency band: 2.4GHz, Gain: 2dBi (±0.5). Max. Transmission power: 2mW (with supplied antenna) / 6.3mW (maximum with any antenna),

USB interfaces

The four USB interfaces (3, 4) are used to connect peripheral devices with a USB connection. The USB 2.0 standard (3) and USB 3.0 standard (4) are supported.

LAN connectors

The RJ-45 socket (5, 6) enables the Touch PC to be connected to a 10/100/1000 BASE-T network. HDMI (High-Definition Multimedia Interface)

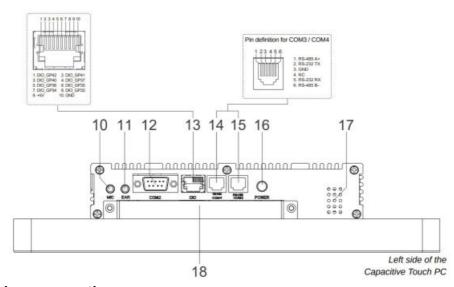
The HDMI terminal (7) is for transmitting the video signal.

Power supply

The power supply of the Touch PC is established via the socket (8). The DC-In input (screwable) is 12V.

DP (DisplayPort)

The DP connector (9) is for transmitting the video signal.



Audio and microphone connection

The audio and microphone connection (10, 11) has a diameter of 3.5 mm and is used for transmitting audio signals.

COM2, RS-232

The serial interface DSUB9 port for COM2 (12) is automatically set to RS-232 and is unchangeable in the BIOS. RX/TX option. See the complete pin definition in the illustration on the previous page.*

DIO/GPIO (General-Purpose Input/Output)

The DIO (13) is an RJ50 connector and has a total of 10 pins. See the complete pin definition in the illustration above.

COM3 & COM4, RS-232/485

The COM3 and COM4 (14, 15) use RJ25 (6P6C) ports and support RS-485 and RS-232 via different pins. See the complete pin definition in the illustration above.*

On/Off switch

With the button (16) the touch PC can be switched on and off.

Audio Speakers

This Integrated audio speaker (17) is a 2W audio speaker, and the touch monitor has one on each side (left side and right side).

SSD Module Slot

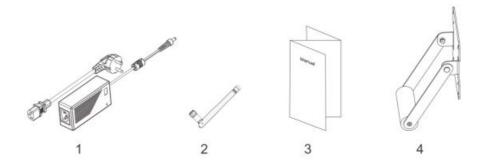
The SSD slot (18) has a 2.5" exchangeable SSD, with a standard 128GB industrial SSD.

Status LEDs

0	No LED There is no power supply.
0	Green LED The touch PC is switched on.
0	Red LED The Touch PC is connected to a power source, but it is currently switched off.

!	Moving or cleaning the device Make sure that you only clean or move the device when the LED light is o
Attention	ff.

Scope of delivery



Power supply unit

The supplied power supply unit (1) has a screwable connection. The power supply is 100-240V AC 50-60 Hz with 2A, 3A, or 5A, depending on the product.

W-LAN antenna

The supplied W-LAN antenna (2) can be screwed onto the W-LAN connector to connect the touch PC to a network (Internet).

Frequency band: 2.4GHz / Max. Transmission power: 2mW

Brief instructions

This quick guide (3) contains the most important information about the Touch PC.

Standard version

This standard stand (4) is included in the scope of delivery for the 13.3 – 27" devices. Can easily be screwed on

the backside with VESA 75 or VESA 100 holes.

Installation instructions

Transportation

Despite the robust design, the built-in components are sensitive to strong vibrations and shocks. Therefore, protect your touch PC from high mechanical stress during transport. Use the original packaging for shipping.

When transporting the device in cold weather or if the device is exposed t o extreme temperature fluctuations, make sure that no moisture (condens ation) condenses on or in the device. Allow the device to slowly adjust to room temperature before putting it int o operation. If there is condensation, the unit may only be switched on aft er a waiting period of about 12 hours.

Unpacking

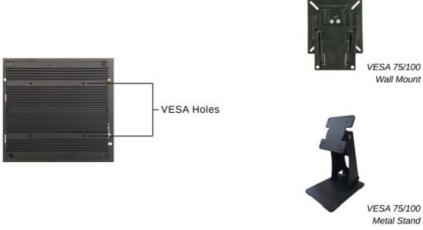
Proceed as follows when unpacking the device:

- 1. Remove the packaging.
- 2. Do not throw away the original packaging. Keep it for re-transport.
- 3. Check the delivery for completeness based on your order.
- 4. Please keep the documents supplied with the device; they contain important information about the device and how to use it.
- 5. Check the package contents for visible transport damage.
- 6. If you notice transport damage or discrepancies between the contents of the package and your order, please inform the faytech service.

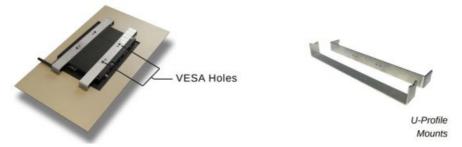
Mounting options

There are several ways to mount the device:

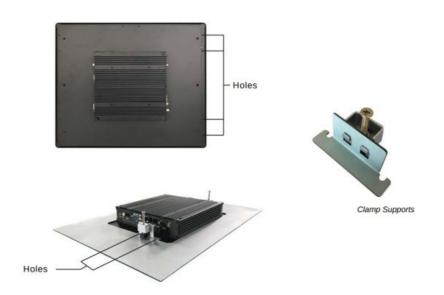
1. use the VESA-75 or VESA-100 holes on the back to mount the unit on a wall or stand.



2. Use the U-profile brackets in combination with the VESA holes to integrate the unit into a cabinet.



3. Use the mounting brackets to integrate the device into a cabinet. This mounting solution uses screw holes that can be used for all peripherals.



Cut-out requirements Keep in mind that the cut-out size differs per device. So, ensure to follow the proper instructions f or each of these mounting solutions: U-Profile Mounts documentation – https://bit.ly/3fskMGw Clamp Support documentation – available on each separate product specification sheet www.faytech.com/products/products-overview/) Own mounting solution Of course, it is also possible to use your own mounting solutions. faytech is not responsible for the e proper use of the mountings.

The connectors are located at the rear of the Touch PC and are documented in the chapter Product Description. To start the device, connect it to a power source with the supplied AC adapter or use a corresponding 12V DC power source. For all power information see the respective product label.

After connecting the power adapter to the power source, a green LED light on the power box should illuminate. The LED light on the unit should turn red.



	ļ	
Att	enti	on

Own power supply

Only use your own power supply unit if you are aware of the use of the power supply unit. If the wrong voltage is used, it may destroy the unit.



Fire or smoke

If the appliance catches fire or starts smoking, immediately unplug the appliance and then extinguish with powder or nitrogen.

Driver installations

In order to fully utilize all functions of the faytech touch PCs, it is recommended to download the required drivers from the faytech website in the download section (www.faytech.com/downloads/).

Drivers available on our website for this product series:

- Apollo Lake Mainboard Drivers (N4200 / N3350) - Windows 10

All drivers packed together, are related to this product series with Windows 10 OS.

- Capacitive Touch Driver - Linux

This is the capacitive touch driver to work with the Linux operating systems.

- Capacitive Touch Driver - All OS (except Linux)

This is the capacitive touch driver to work with all operating systems, except Linux. OS's included: Android, MS-DOS, macOS, QNX, and Windows.

- W-LAN Driver

This driver is focused on the W-LAN function of the Touch PCs.

Operating instructions

Initial power-up and driver installation

To turn the unit on, press the power button on the back or side of the unit. When you turn on the Touch PC for the first time, the pre-installed operating system (Linux or Windows) will start.



First shut down, then switch off

If the Touch PC is switched off while the software is writing a file to the har d disk, this file will be destroyed. Control software usually writes somethin g to the hard disk on its own at intervals of a few seconds, so the probability of causing damage by switching off while the software is running is very high.

To get the most out of your device, you must download the correct drivers for your device. You can find these drivers on the website under Downloads: www.faytech.com/downloads. This series uses the Apollo Lake mainboard and therefore requires the appropriate drivers.

BIOS settings

In the following, the most important BIOS settings are explained. Please note that the BIOS is a special BIOS for integrated monitor PC solutions. Accordingly, after adjustments in the BIOS, you may not be able to see an image on your touch PC screen. For this reason, only experienced users should make changes to the BIOS. If the system is adjusted, proceed as follows: Press "Del" on a connected keyboard (even if you do not see an image) until you are sure that you are in the BIOS. Then press F5, Enter, F10, Enter. The system will reboot and you should have a picture on your monitor again.



Linux Preinstalled

If a current Ubuntu is preinstalled on your Touch-PC with integrated SSD, the username is "User" and the password is "user123".

If you want to change the password, open a terminal. Type "sudo su", "ent er". The password is still "user123". Then "passwd user" and enter the ne w password.

Troubleshooting

No image

- 1. First, check whether the power supply is correctly connected and working (green LED on power supply unit)
- 2. When installing new graphics card drivers, the BIOS might be changed and no boot screen is visible. Wait for one to two minutes until Windows is loaded.
- 3. Connect an external keyboard via USB and check whether the Num-Lock LED of the Keyboard lights up (press Num-Lock). If this lights up, there is usually only an incorrect BIOS. Turn off the computer again, restart it, and press "Del" until you are sure that you are in the BIOS. Set the graphics options in the BIOS according to the Chapter BIOS Settings.
- 4. If none of the above points leads to success, please contact our direct Manufacturer service, under the contact details given below.

The touch function is not accurate

1. Please download the latest touch drivers from our website www.faytech.com and perform a recalibration to recalibrate the touch screen.

FAQs

How do I connect the touch display to the appropriate power supply?

All displays have an external power supply. Therefore you have two possibilities: You can use the 12V DC power supply unit or the 230V power supply unit which are included in the scope of delivery.

The touch function does not work properly, what can I do?

If you have problems with the touch, please check if the driver and all cables are installed correctly. Otherwise, the most common error is caused by the protective foil on the touch display. Please remove the protective foil to get the best possible use out of the display.

Does the touch functionality affect the image quality?

No, the touch panel is transparent and non-reflective. So you will not notice the additional panel.

Service and Support

Service

If you think your faytech product has a defect please always contact us directly. Our trained after-sales service specialists can help you to resolve your problems regarding the device. Please check the manual and our frequently asked questions before contacting us – you will usually find an answer to your question. Please attach your invoice and a detailed description of the issues you are facing with your device to your contact E-mail/fax. In reply, you will receive an e-mail/fax with your RMA number and additional information. For defective accessories that were content of the original delivery, we usually send you a replacement before receiving the damaged goods. In case of a defective product, we try to check and solve the problem within 3 working days after receipt. Make sure that shipping has been paid before sending the goods back to us. We do not accept postage-due packages at our service centers. Anything shipped with postage due will be rejected. Within the first 30 days after the purchase of a new faytech product, we will refund the shipping costs for returned defective products. For the rest of the warranty period, we will only cover shipping costs for repaired or replaced items that we ship back to you (one way).

For support outside of China, we work with local representatives/local service partners together who may work on our behalf in our name. For more information, feel free to contact us under the following contact details.

Contact

Global Support: +86 755 89580612 Support Europe: +49 5542 303740 Support North America: +1 646 205 3214

Support India: +91 11 4970 7436 Support Japan: +070 4127 5167

Support E-Mail: support@faytech.com/
Homepage: http://www.faytech.com/

Webpage of RMA: https://rma.faytech.com/en/

Global Headquarters faytech AG

Bischhäuser Aue 10 37213 Witzenhausen Germany

Appendix

CE Declaration of Conformity

Hereby faytech AG declares that the equipment is in compliance with the essential requirements and other relevant regulations of the directives 2014/53/EU and 2011/65/EU.

The long version of the CE Declaration of Conformity can be found in English at: www.faytech.com/c

Documents / Resources



faytech N4200 Capacitive Touch PC [pdf] Instruction Manual N4200, N3350, N4200 Capacitive Touch PC, N4200, Capacitive Touch PC

References

- 1 Industrial touch panel pc | Touch Monitors and Pcs | faytech
- Downloads | 3D Models | faytech
- Downloads | 3D Models | faytech
- Downloads | 3D Models | faytech
- **bit.ly/3fskMGw**

Manuals+, home privacy