

## piTerminal

Item number: 911130646



Multifunctional terminal for data recording, time recording and access control

## Overview

Based on the piA-AM3354-PM processor module, the multifunctional terminal offers a wide range of possible uses. The piTerminal is a powerful industrial PC which can be used as an information and multifunctional terminal for time, production and machine data acquisition.

The 4.3" TFT display functions as user interface and ensures easy operation. The available interfaces, such as WLAN and RFID, as well as optional CAN and Ethernet, enable rapid integration into the already existing control and administration systems.

The use of Ångström Linux operating system offers a flexible software environment.

In addition, the cloud platform pironex-iot.de and the associated Android and iOS apps are available for visualizing and analyzing the data.

- › compact, robust and powerful industrial PC
- › graphical user interface and 4 capacitive buttons for easy operation
- › individually adaptable Linux embedded software
- › compatible with pironex-iot.de cloud and app

## Applications

Diverse interfaces and adaptable software allow the user universal use for BDE, PZE, MDE up to access control.

### › Time and access control

Access control and time recording are carried out without contact. Those entitled to access receive an RFID card or an RFID key fob. piTerminal records the data, connects it with a time stamp and forwards it to higher-level systems.

### › Commissioning und Asset Tracking

Whether in logistics or production - the RFID tags ensure reliable, automatic identification.

The piTerminal serves as a hub in a modern asset tracking system. It scans the assets, assigns them to a location and users.

### › Process optimization

piTerminal makes professional human-machine interaction possible and can be used as a control computer as well as a classic information terminal.

Application-specific modifications are possible - so both the interfaces and the performance can be customized.



The cloud platform pironex-iot.de and the associated Android and iOS apps enable remote access and offer extended visualization options.



## Technical data

### Basics

<b>Supply voltage</b>	12V / 300 mA
<b>Processor</b>	Processor module piA-AM3354-PM ARM Cortex-A8 microprocessor up to 800 MHz 1600 ARM MIPS
<b>Display</b>	4.3 " TFT, 480x272 pixels
<b>Dimensions</b>	130 x 230 x 37 mm (without wall bracket)
<b>Temperature</b>	-10 °C to +60 °C
<b>Schutzklasse</b>	IP 20

### Other features

<b>Battery pack</b>	MS621FE-FL11E with 5,5 mAh
<b>Memory</b>	<ul style="list-style-type: none"> <li>SRAM: 256 MB</li> <li>Flash: 8 GB eMMC</li> <li>EEPROM: 2kbit</li> </ul>
<b>Housing</b>	Material: <ul style="list-style-type: none"> <li>ABS</li> <li>Acrylic glass as the front glass</li> </ul> Mounting variants: <ul style="list-style-type: none"> <li>VESA 100 mount</li> <li>Surface mounting</li> <li>Post mounting</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>4 status LEDs</li> </ul>

### Interfaces

<b>WLAN</b>	802.11 b/g/n, 2,4 GHz
<b>RFID</b>	13,56 MHz
<b>Buttons</b>	4x capacitive
<b>CAN-Bus (optional)</b>	up to 1MBit/s
<b>SIM (optional)</b>	Nano-SIM holder
<b>Cellular (optional)</b>	2G(EGPRS): 850/900/1800/1900 MHz, flexible antenna in the housing via U.FL
<b>Ethernet (optional)</b>	10/100 Mbps

### Software

<b>Linux</b>	<ul style="list-style-type: none"> <li>Ångström Linux, Kernel 2.6.37 and 3.2.</li> <li>Open source SDK with required libraries</li> </ul>
<b>Cloud</b>	pironex-iot.de with the following modules: <ul style="list-style-type: none"> <li>Data Logging</li> <li>Monitoring</li> <li>Sharing</li> <li>Remote Control</li> <li>Asset Tracking</li> <li>Predictive Maintenance</li> <li>Anomaly Detection</li> </ul>
<b>App</b>	native pironex-IoT-Apps for Android and iOS