pironex
electronic and software solutions

Data sheet piCAN-TFT+ (911130184)

piCAN-TFT+

Features

- customizable multifunction terminal
- 4,3" TFT display
- graphical user interface
- 13,56 MHz RFID reader
- 4G module
- powerful ARM Cortex-A8 architecture
- CAN, USB, Ethernet, RS485, Bluetooth LE
- 12V power supply
- digital inputs
- digital outputs
- robust housing
- individual design on request

Overview

The piCAN-TFT + is a powerful industrial PC that can be used as an information and multifunction terminal for time recording, access control and object identification. Thanks to the integrated RFID reader, access control takes place quickly and with a high degree of security. Contactless RFID cards with an operating frequency of 13.56 MHz can be read.

The multifunction terminal is robust, durable and easy to use. The graphical user interface of the 4.3 " TFT display ensures easy operation.

The available interfaces, such as CAN, USB, Ethernet, RS485, Bluetooth LE and optional WLAN, allow quick and easy connection to existing control / management systems.

The used operating system Ångström Linux offers a flexible software environment.

Applications
- terminal
- access control
- door control
- time recording systems

Details

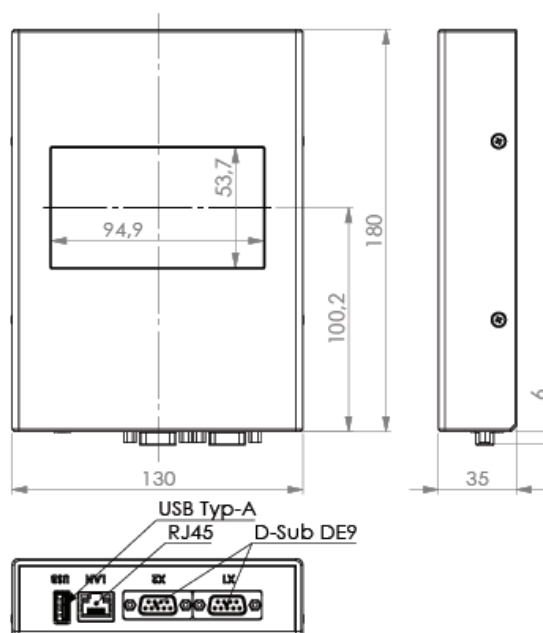| Basics	
Processor	Processor module piA-AM3354-PM
	ARM Cortex-A8 microprocessor
	up to 800 MHz, 1600 ARM MIPS
RAM	256MB DDR3 SDRAM
Flash	8GB eMMC
Memory	custom µSD card
Display	4.3'' TFT, 480x272 pixels
RFID	integrated PCB antenna (supports ISO 14443A & 15693)
	Frequency: 13,56MHz

Interfaces

Ethernet	1 x 10/100 Mbps
USB (optional)	1 x Host (USB Type A)
Inputs	6 x 12V
Outputs	1 x sinking
	1 x sourcing
	for Euro Locks 3770 or Sothco R4-EM8 electr. door opener
Wireless modules	Dual-Band HSPA+/WCDMA and Quad-Band GSM/GPRS/EDGE
CAN interface	1 x CAN
	supports up to 1Mbps data rate
RS485	1 x Half Duplex, 20 Mbps
Bluetooth	BT 4.2 Low Energy
WLAN (optional)	Transfer rate: 150 Mbps
	Frequency: 2,4 GHz
	Standard: IEEE 802.11 b/g/n
	Chipset: Realtek RTL8188ETV, internal antenna

Other characteristics

Power supply	12V/300mA
Temperature range	-10°C to +60°C
RTC	Real-time clock
Buzzer	1 x 83 dB @10cm
	Frequency: 2,3 kHz
Debug UART	1 x 5 pin header

Schematic drawing

Software

Ångström Linux, kernels 2.6.37 and 3.2.x

Open source SDK with required libraries