



piCAN-TFT



Features

- Terminal system
- 4.3" LCD display with touch-screen function
- TFT display, 480 x 272 pixels
- RFID reader
- CAN interface
- Power supply (12VDC)
- USB, Ethernet
- 3 x Digital Input
- 6 x PWM/LED Driver
- 2 x 12V/750mA Output
- Ångström Linux
- Kernel 2.6.37 and 3.2.x

Overview

The piCAN-TFT is a terminal system based on IPC and consisting of a 4.3" TFT display (touch-screen function optional) and a RFID reader. The robust plastic housing allows use in harsh environments and is ideal for wall mounting. The CAN bus and Ethernet interfaces provide quick and easy connection to existing control / management systems. Ångström Linux, as an operating system, provides a flexible software environment.

piCAN-TFT can read RFID cards with an operating frequency of 13.56 MHz. Through the use of advanced ICs, the new NFC standard (Near Field Communication) is also supported. Three digital inputs allow the connection and the evaluation of sensors (eg switches). The 6 LED driver outputs can, for example, control 2 RGB buttons. The brightness for each of the 6 channels is configurable in 256 steps (0% to 99.6%).

Applications

- Terminals
- Access control
- Door control
- Time and Attendance Systems

Details

Basics

Processor	Processor module piA-AM335x-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, touch-screen function optional
RFID	Supports ISO 14443A & 15693, NFC Frequency: 13.56MHz

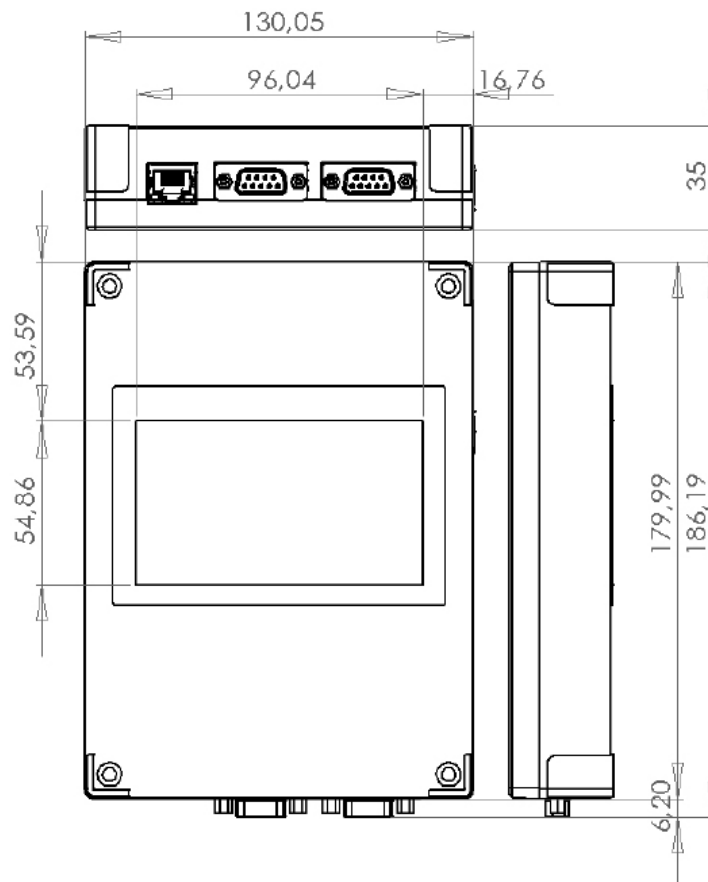
Interfaces

Ethernet	1 x 10/100/1000 Mbps Ethernet MAC
USB (optional)	2 x USB Type A
I / O	3 x Digital Input 2 x 12V/750mA Output
LED driver	6 x PWM/LED Driver 12V/100mA Open-Drain Outputs Frequency: 97kHz, DutyCycle: 0-99.6% (8-bit)
CAN interface	1 x CAN supports up to 1Mbps data rate

Other characteristics

Power supply	12V/300mA via CAN bus
Temperature range	-10°C to +60°C
RTC	Real-time clock

Schematic drawing



Software

Ångström Linux, Kernel 2.6.37 and 3.2.x
Open-Source SDK with required libraries