

Inthouse TP8 Pro

Datasheet



TP firmware version

v1+

Document date

2025-07-30

Introduction

Inthouse TP8 Pro is powerful and modern 8" industrial touch panel certified for Inthouse.

It has a 8" IPS display, IP65 front side rating and metal case for embedded installation. It comes with a mounting kit for electrical cabinet and it also has a VESA 100x100 mount.

The touch panel can be connected to the PLC and Internet in different ways, such as using wired Ethernet, as a wireless Wi-Fi client to an existing network, using FT1.2 over RS-485 serial cable or using a mobile LTE network (*optional*).

It comes with the Inthouse App already installed. You only need to enter the Configuration ID to connect to your PLC and visualize your Inthouse configuration. This can be done by the end user from the App.

For our OEM customers with a branded application, the touch panel will be delivered with full customer's branding. This includes the branded start-up logo, the partner's branded application and system user interface customizations (such as light or dark system theme, available keyboard languages, etc.).

For our OEM customers, the Touch panel can also be delivered with a custom OEM application instead of the Inthouse App. The Touch panel can also be used to display a web page without any application required.

We also recommend the [Inthouse Hub](#) or [Inthouse Hub Pro](#) for remote access over cloud to the PLC (lifetime access included in price of the Hub). The touch panel can be connected to the Hub using wired Ethernet, wirelessly over Wi-Fi or even remotely using a mobile LTE network (*optional*).

Hardware description

| POWER AND SPECS | | |
|-------------------|--|------------------------------|
| Power input | DC 12-36V | 2-wire terminal block |
| | Power over Ethernet <i>(optional)</i> | IEEE 802.3af/at PoE (active) |
| Power consumption | < 10 W | |
| Operating temp. | -10 ~ 50 °C | |
| Audio | Speaker | |

| SYSTEM | |
|---------|----------------------------------|
| CPU | ARM Cortex-A55, 4-core @ 2.0 GHz |
| GPU | ARM Mali-G52 |
| NPU | Up to 1 TOPS |
| RAM | 2 GB / 4 GB <i>(optional)</i> |
| Storage | 16 GB / 32 GB <i>(optional)</i> |
| OS | Android |

| DISPLAY | |
|----------------|--|
| Panel type | IPS LCD (300 nits) |
| Size | 8" 16:10 landscape (or optionally portrait 10:16) |
| Resolution | 1280 x 800 landscape (or optionally portrait 800 x 1280) |
| Viewing angles | 178° / 178° |
| Touch | Capacitive, 10-point |
| IP rating | IP65 (front side) |

| I/O | |
|-------------------|--|
| 2x RJ-45 Ethernet | Gigabit, connect to network with PLC and Internet (if available) |
| 2x RS-485 | serial cable, supports FT1.2 over RS-485 as alternative connection to the PLC if Ethernet is not available |
| SIM slot | <i>(optional - LTE)</i> mini SIM card / 2FF |
| MicroSD slot | back side, for offline App and Configuration updates |
| USB-A, 2x | back side, blue for Inthouse Studio, black for App and Configuration updates from flash drive |
| W-Fi | 2.4G 802.11b/g/n |

Package and accessories

| PACKAGE CONTENTS | | |
|---------------------------|----|---|
| Inthouse TP8 Pro | 1x | 211 x 148 x 45 mm (204 x 141 x 42.5 mm in-wall, 2,5 mm above wall without seal) |
| Wi-Fi external antenna | 1x | |
| 4G / LTE external antenna | 1x | <i>(optional)</i> |
| Mounting kit | 1x | for electrical cabinet, metal sheet, etc. |

Optional PoE

This option offers support for IEEE802.3af/at active power over Ethernet.

Optional LTE

This option offers global connectivity using 4G / LTE and also older mobile networks.

| MOBILE CONNECTION | | | |
|-------------------|-----------|---------------|--|
| 4G | LTE cat 4 | 150M / 50M | LTE-FDD: B1/B2/B3/B4/B5/B7/B8/ B12/B13/B18/ B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41 |
| 3G | HSPA+ | 42M / 5.76M | WCDMA: B1/B2/B4/B5/B6/B8/B19 |
| 2G * | EDGE | 296K / 236.8K | GSM: B2/B3/B5/B8 |

* 2G connection is not recommended.

Connection setup

| INTERNET CONNECTION | | |
|---|---|--|
| Ethernet | RJ-45 10/100/1000M | connect Ethernet cable |
| Wi-Fi Client | 2.4G 802.11b/g/n WPA/WPA2/WPA3 * AES-CCMP | connect to another Wi-Fi network as client, use Inthouse App to set up |
| Mobile network (<i>LTE option</i>) | 4G - LTE Cat 4 3G - HSPA+ 2G - EDGE ** | insert a mini SIM card with a data plan, use Inthouse App to set up (<i>in development</i>) |

* *WPA3 recommended for security.*

** *2G connection not recommended.*

Full dimensions diagram (1:1) is available at the end of this document or [here](#) for download.

Cutout dimensions diagram (1:1) is available at the end of this document or [here](#) for download.

3D model (stl) is available on the web [here](#).

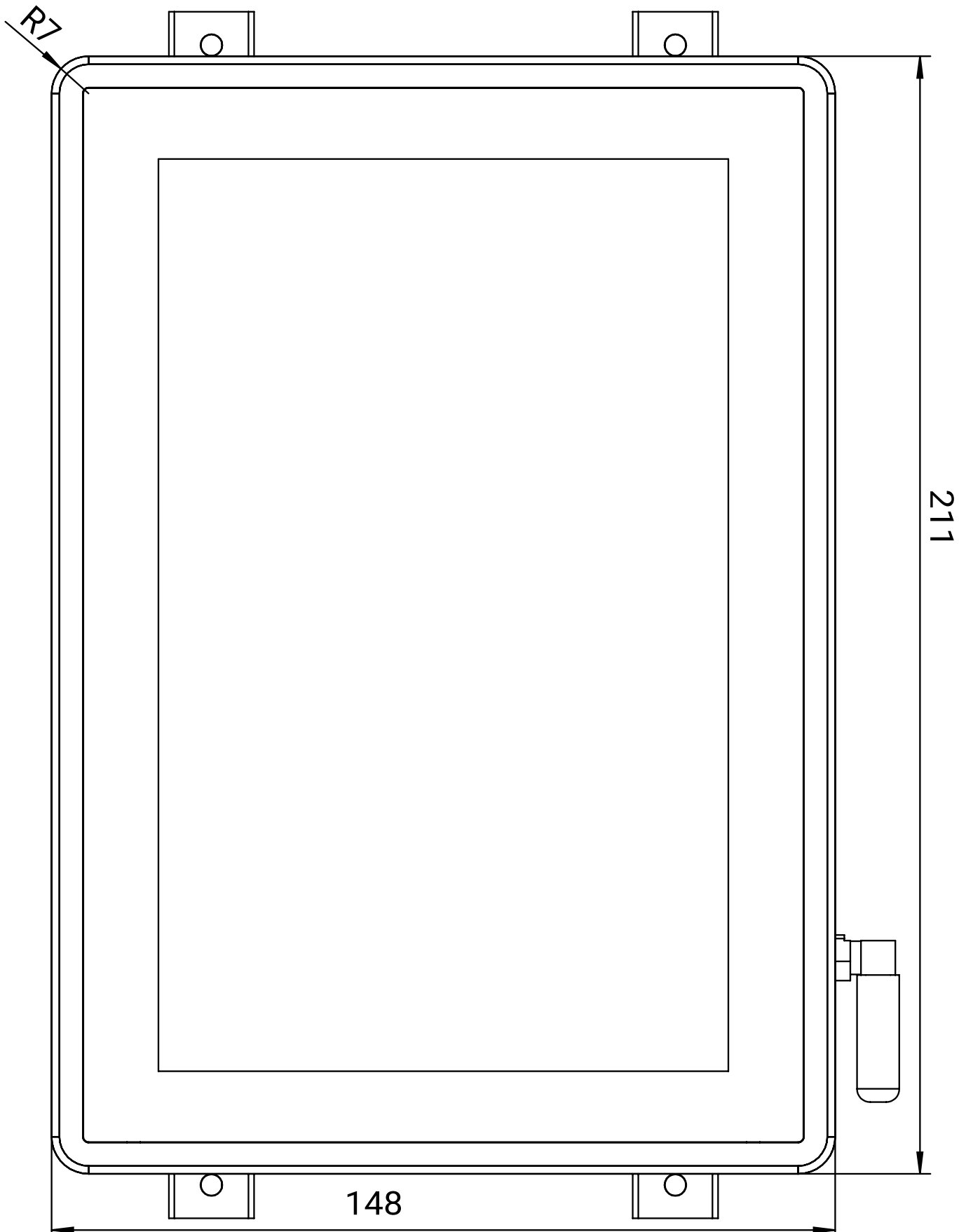
Images

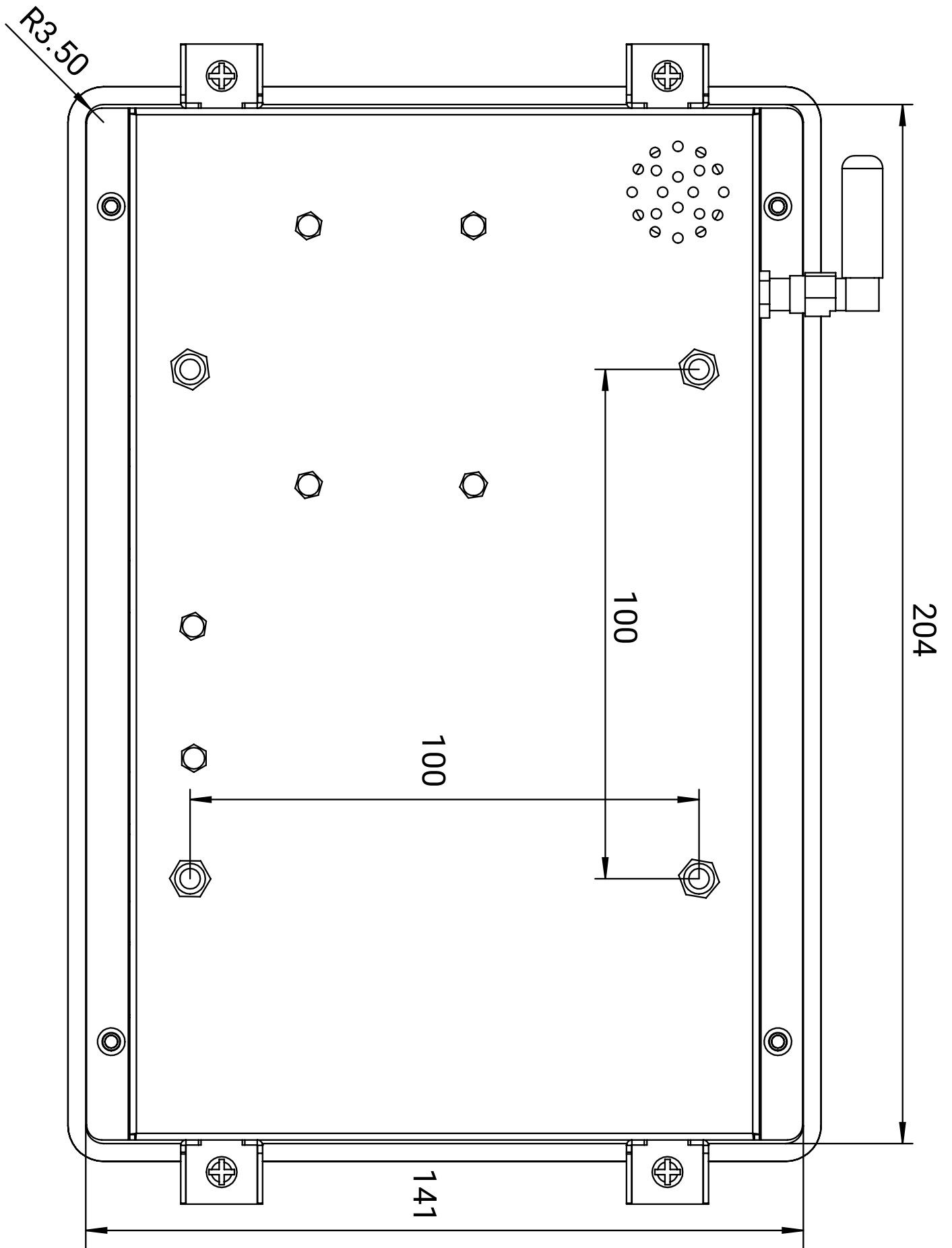




Inthouse TP8 Pro

1:1 dimensions (mm)





BOTTOM

LEFT

