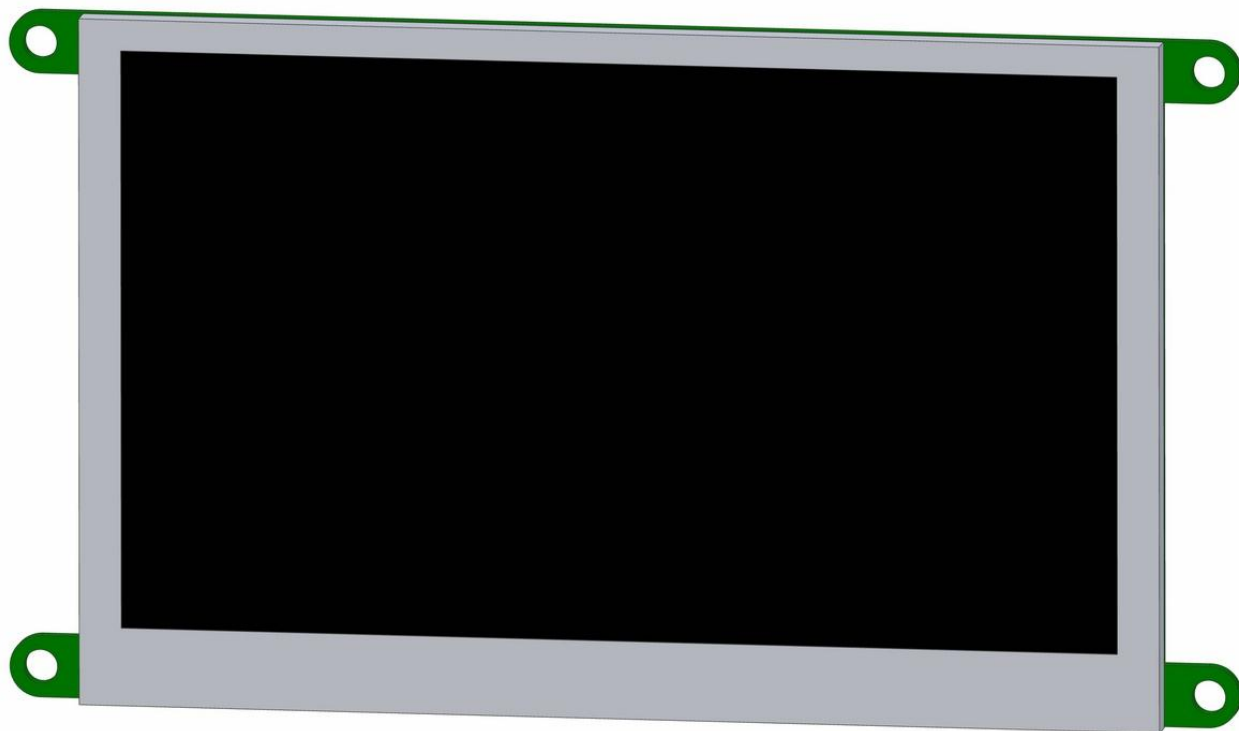


USBD480-NX43 User Guide



Version 0.0

Table of contents

- 1. Introduction2
 - Overview2
 - Features.....2
- 2. Physical Characteristics2
- 3. Electrical Characteristics3
- 4. Models.....3
- 5. USBD480-NX43 module4
- 6. Connectors8
 - USB connector8
 - Expansion connector.....8
- 7. Getting started8
- 8. Programming interface8
 - Windows API DLL8
 - Linux.....8
- 9. Appendix A – Dimensional drawings.....9
 - USBD480-NX43.....9
 - USBD480-NX43-M..... 10
 - USBD480-NX43-CT 11
 - USBD480-NX43-CT-M..... 12
- 10. Document revision history..... 13

1. Introduction

Overview

USBD480-NX43 is a 4.3" TFT display with USB interface

Features

- 4.3" 800 x 480 resolution IPS TFT LCD
- Optional capacitive touchscreen with multitouch
- Hi-Speed USB interface 480 Mbps
- Uses data compression to reduce bandwidth requirements
- Able to maintain 60 fps in typical situations
- USB powered
- USB Type-C connector
- Optional mounting tabs

2. Physical Characteristics

Item	Specifications	Unit
Display resolution	800 x 480	dot
Screen size	4.3" diagonal	
Active area	95.04(W) x 53.86(H)	mm
Pixel pitch		mm
Outline dimensions		
USBD480-NX43 and USBD480-NX43-CT	105.42(W) x 67.07(H)	mm
USBD480-NX43-M and USBD480-NX43-CT-M		mm
Weight		
USBD480-NX43		g
USBD480-NX43-M		g
USBD480-NX43-CT		g
USBD480-NX43-CT-M		g
Backlight type	LED	

3. Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Supply voltage	V _{CC}	4.75	5.0	5.25	V
Current consumption					mA
Backlight current consumption full brightness					mA

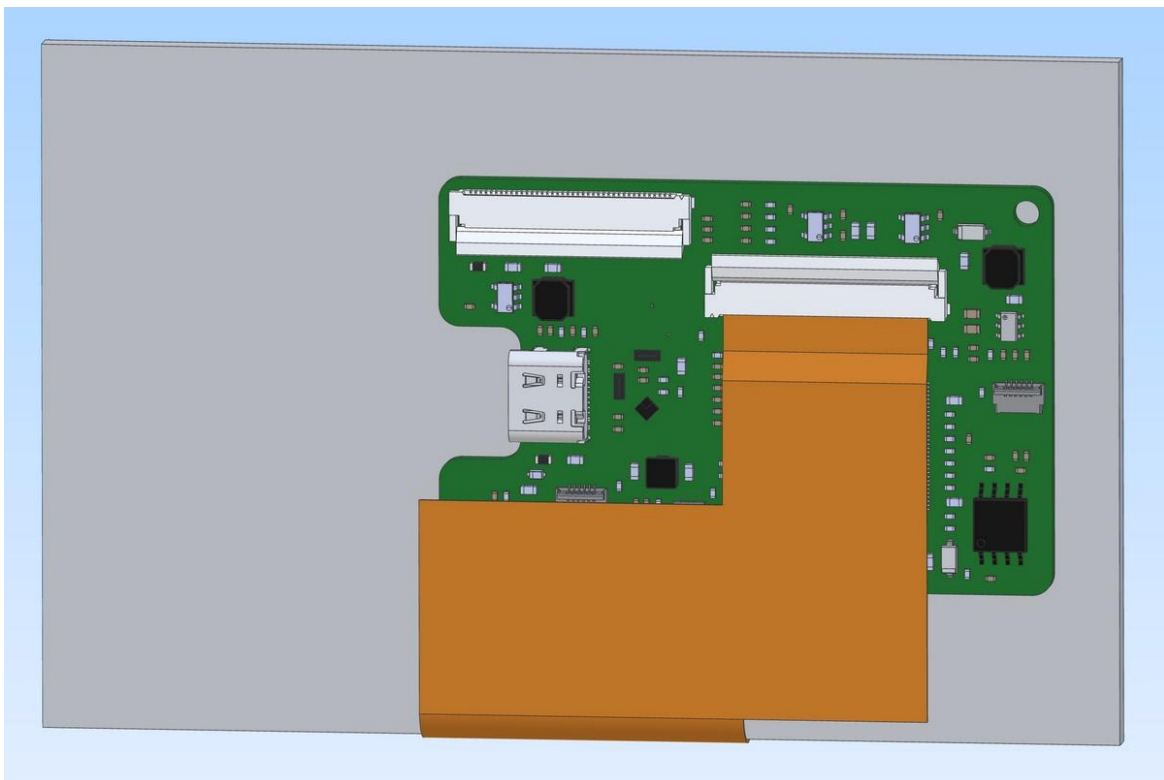
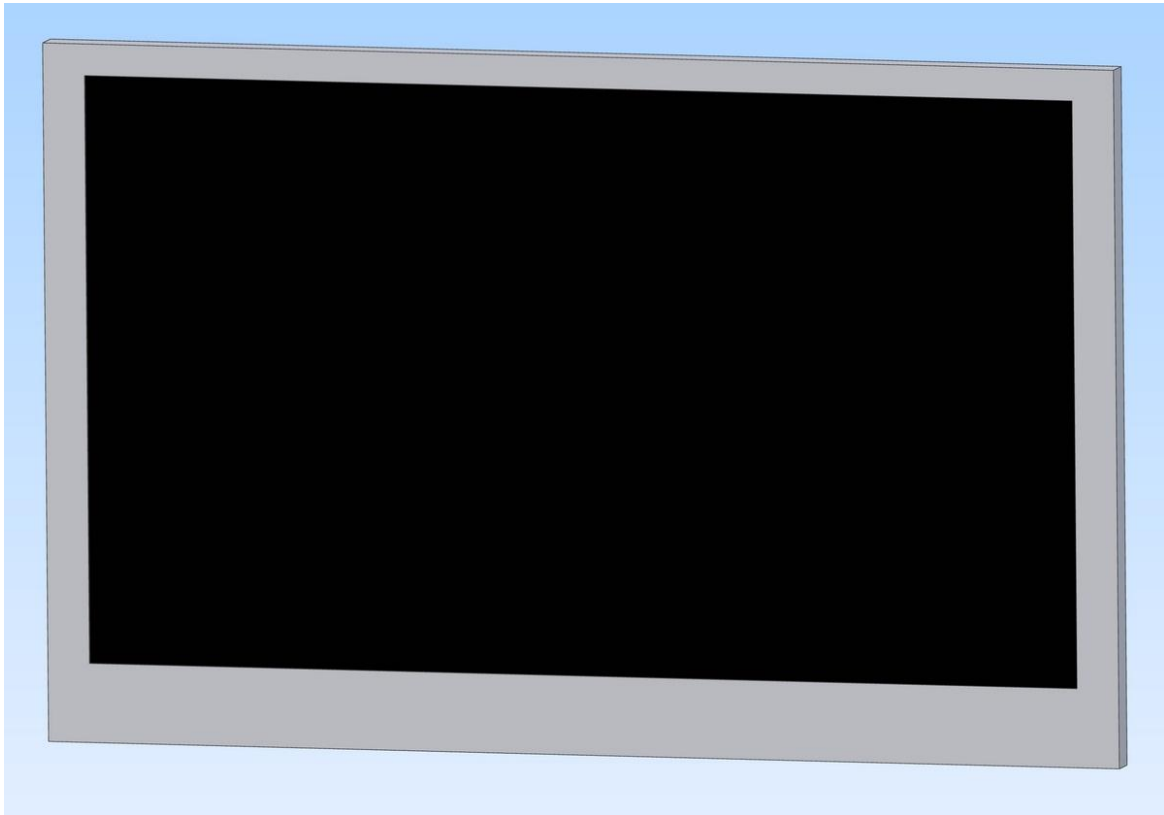
4. Models

Model number	Capacitive touchscreen	Mounting holes	
USBD480-NX43			
USBD480-NX43-M		X	
USBD480-NX43-CT	X		
USBD480-NX43-CT-M	X	X	

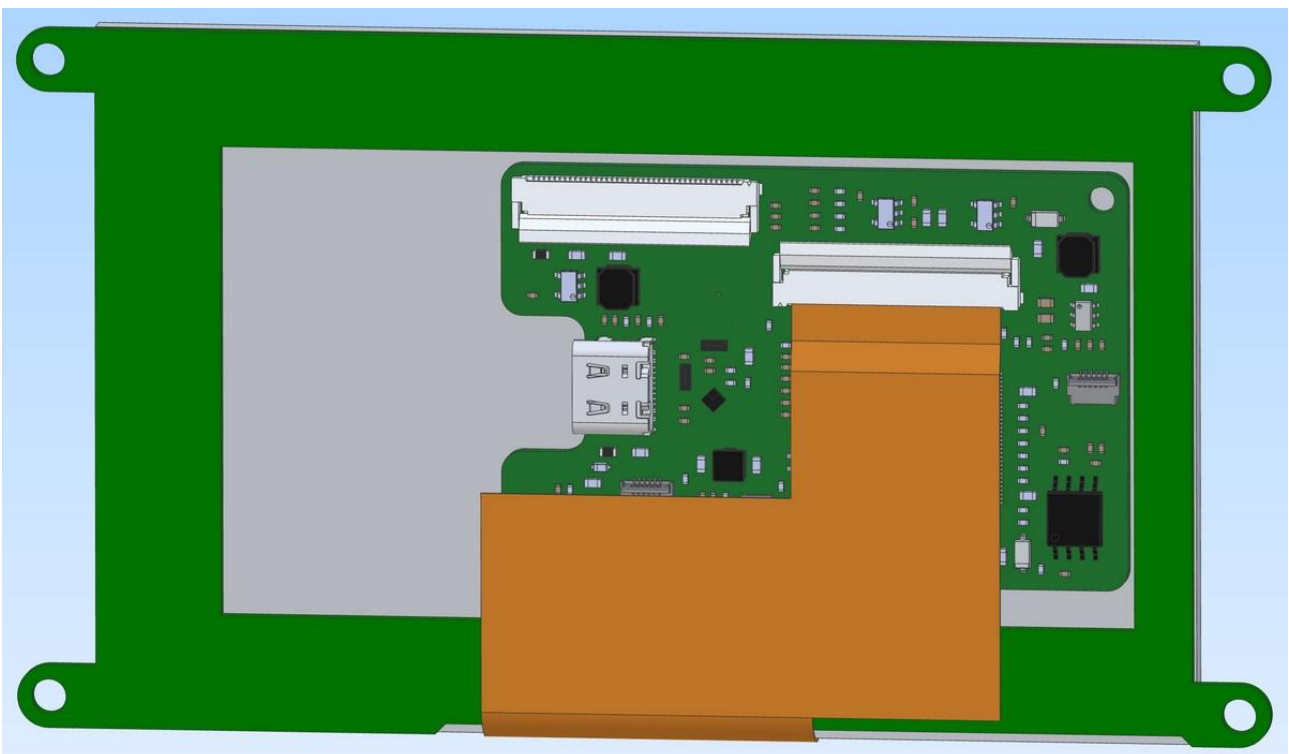
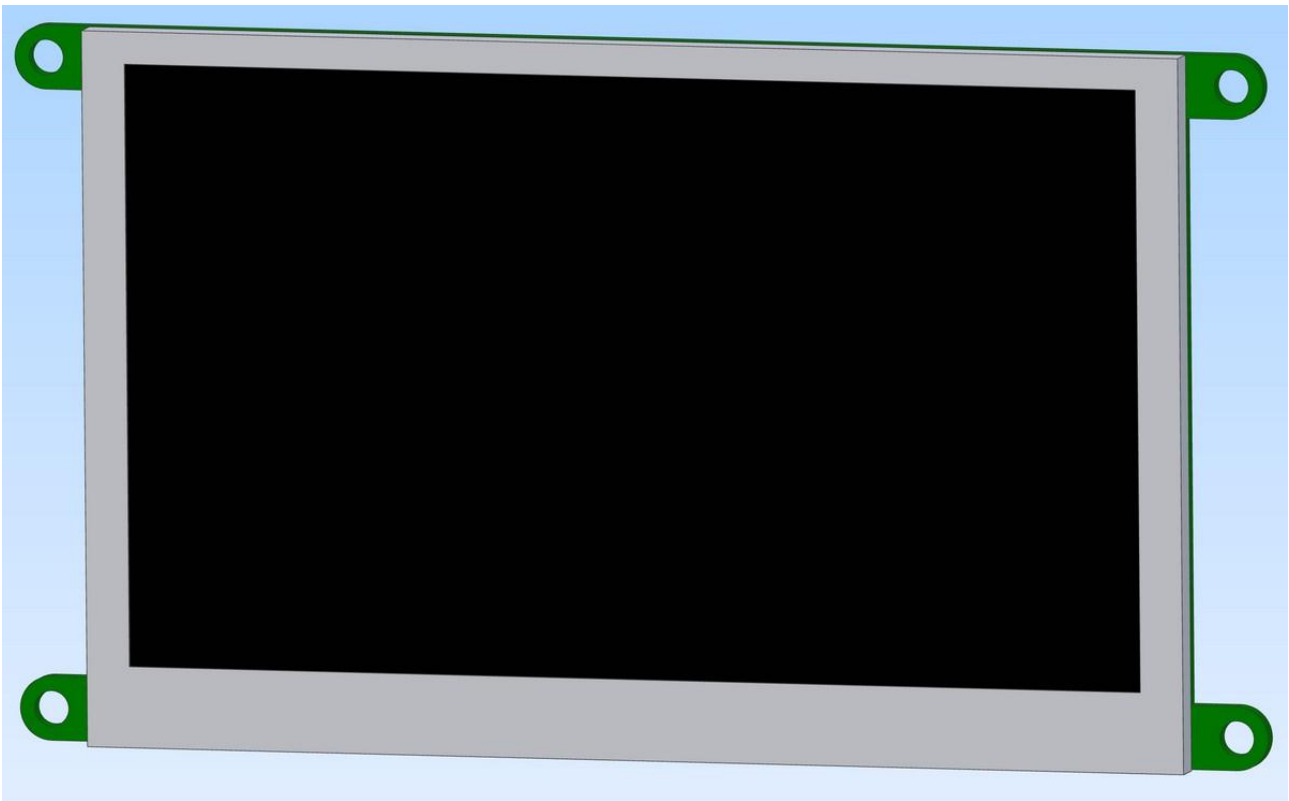
The display is available with optional frame with mounting holes. Touchscreen is also optional.

5. USBD480-NX43 module versions

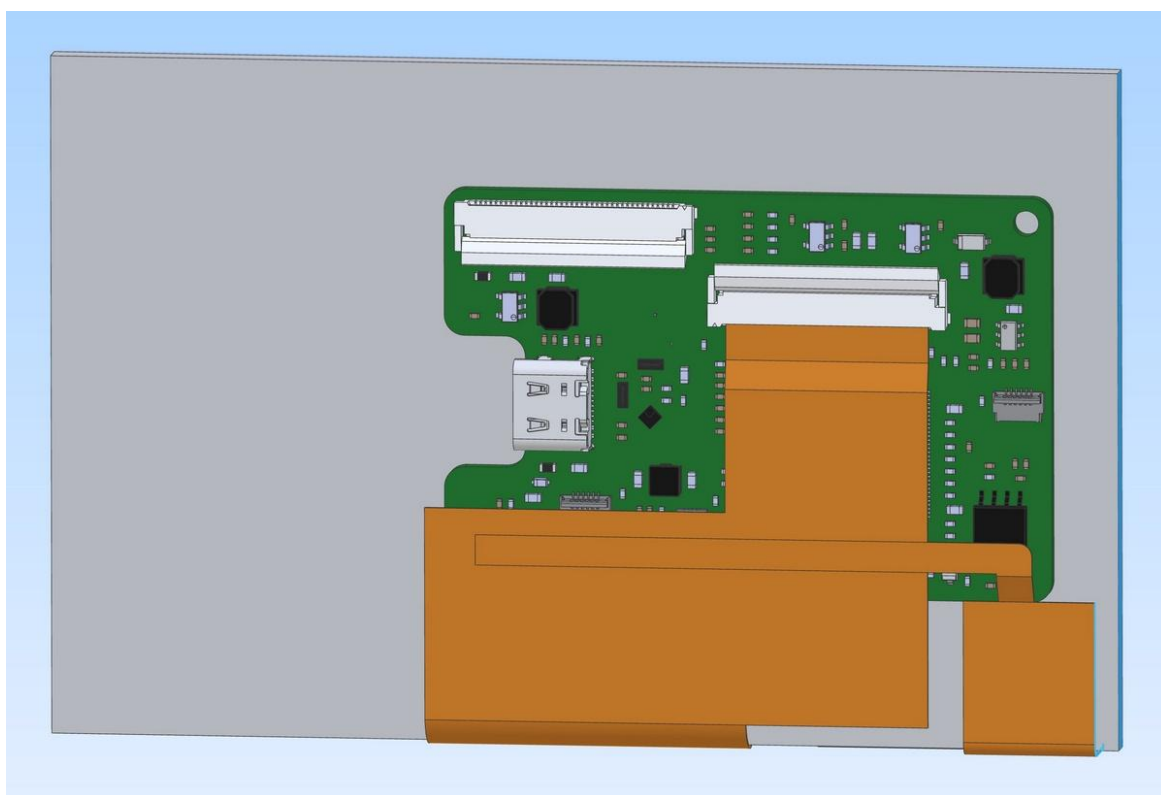
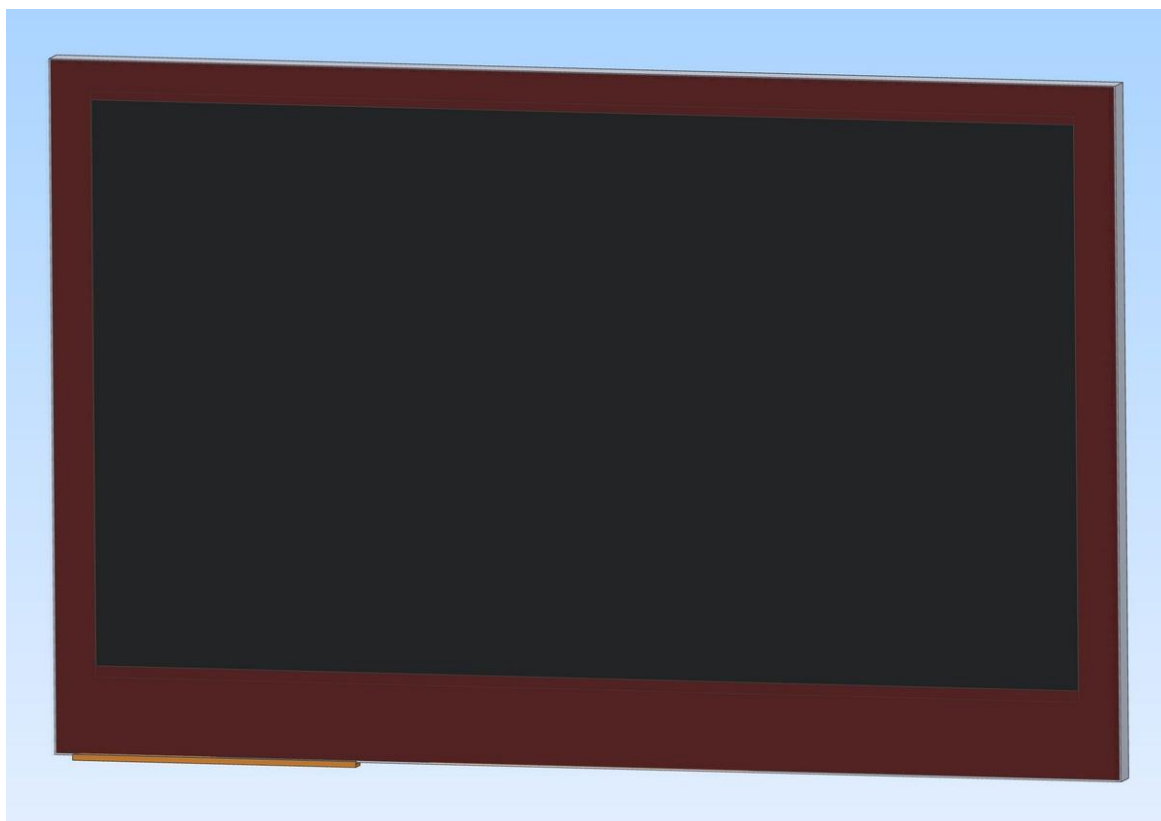
Base model (USBD480-NX43):



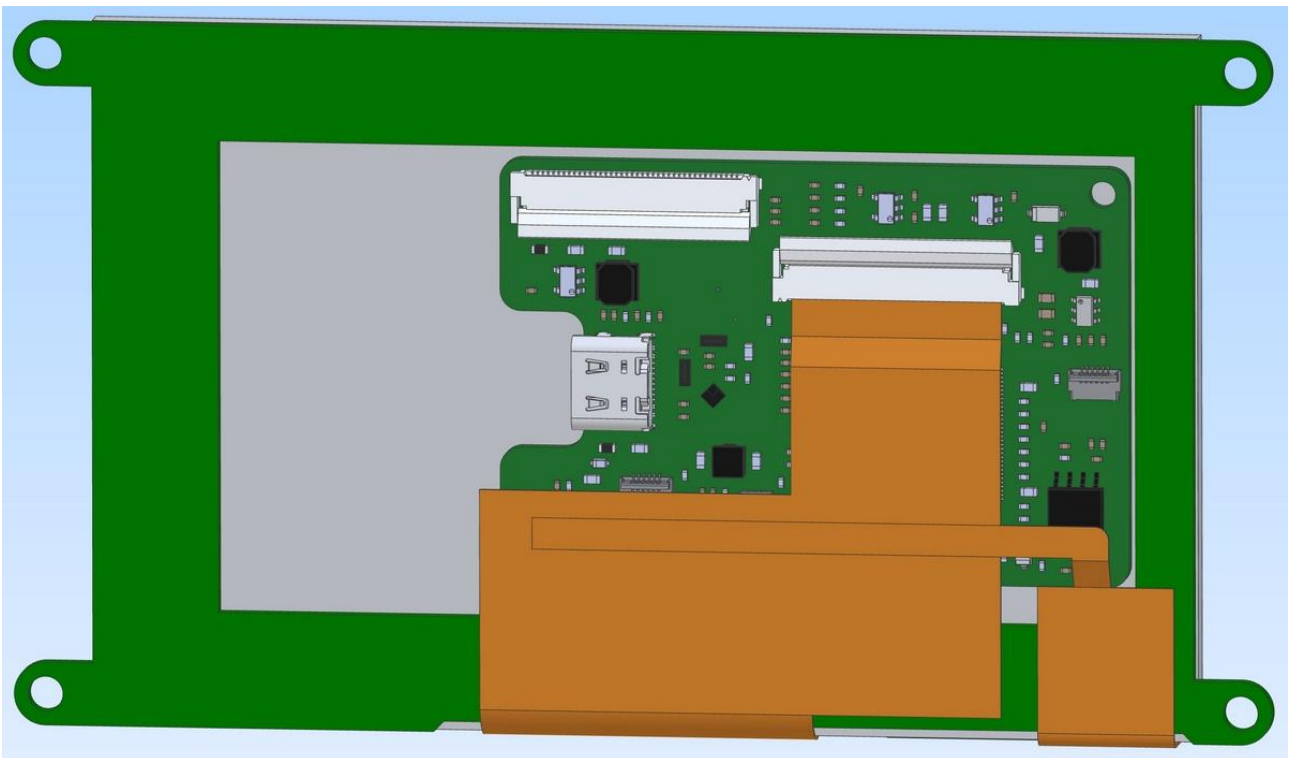
With mounting holes (USBD480-NX43-M):



With touchscreen (USBD480-NX43-CT):



With touchscreen and mounting holes (USBD480-NX43-CT-M):



6. Connectors

USB connector

Single USB connector is used as the communication interface as well as the power supply for the display module. USB Type-C connector is used.

Expansion connector

40 way 0.5 mm pitch FFC/FPC connector.

Pin	Name	Function

7. Getting started

Single USB cable is used for both powering the display and communicating with the display module.

For Windows no device driver is required to be installed.

USBD480-Tool software for adjusting settings and updating firmware

8. Programming interface

Windows API DLL

For Windows there exists a DLL that provides an API for communicating with the display.

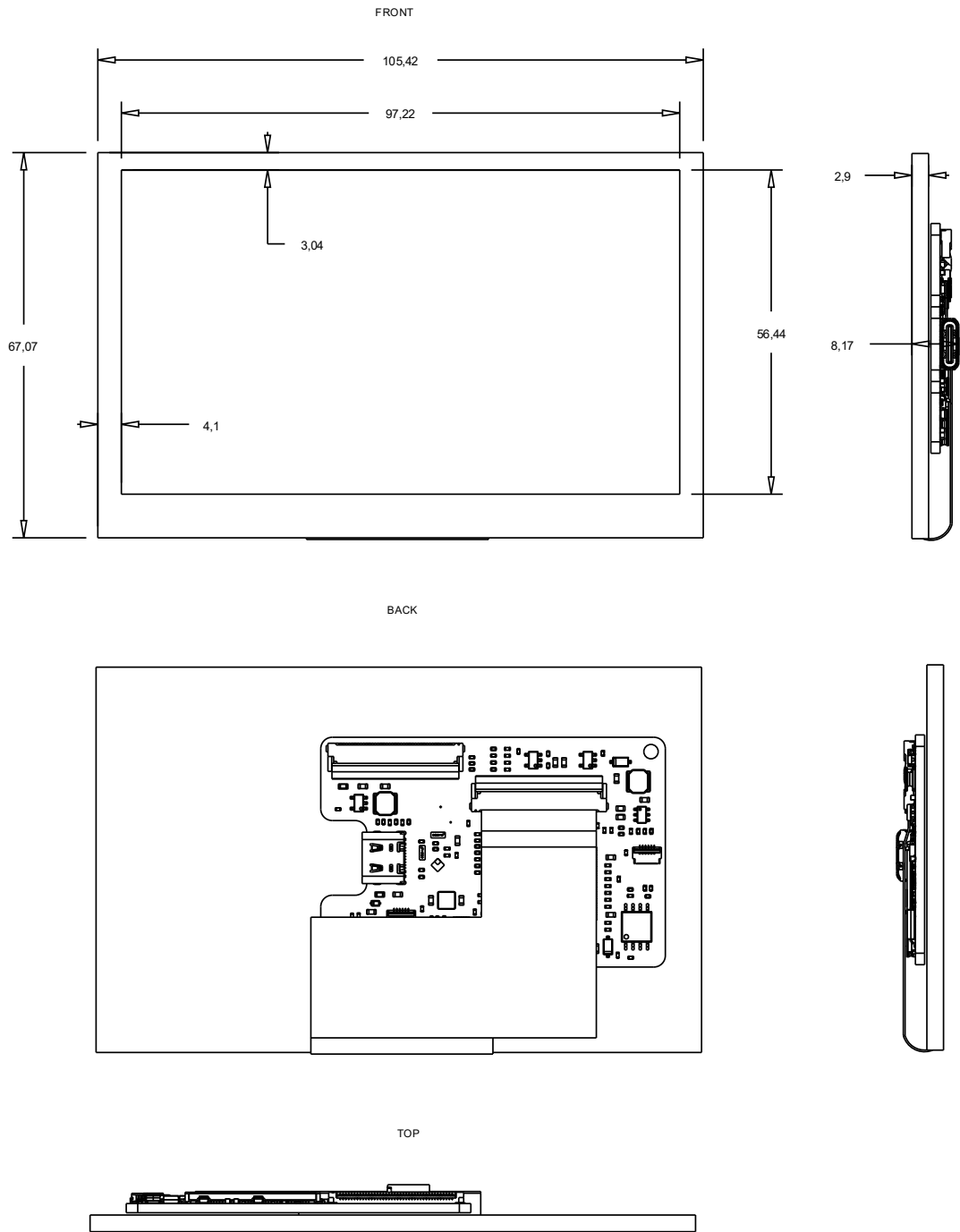
The API interface is described in a separate document.

Linux

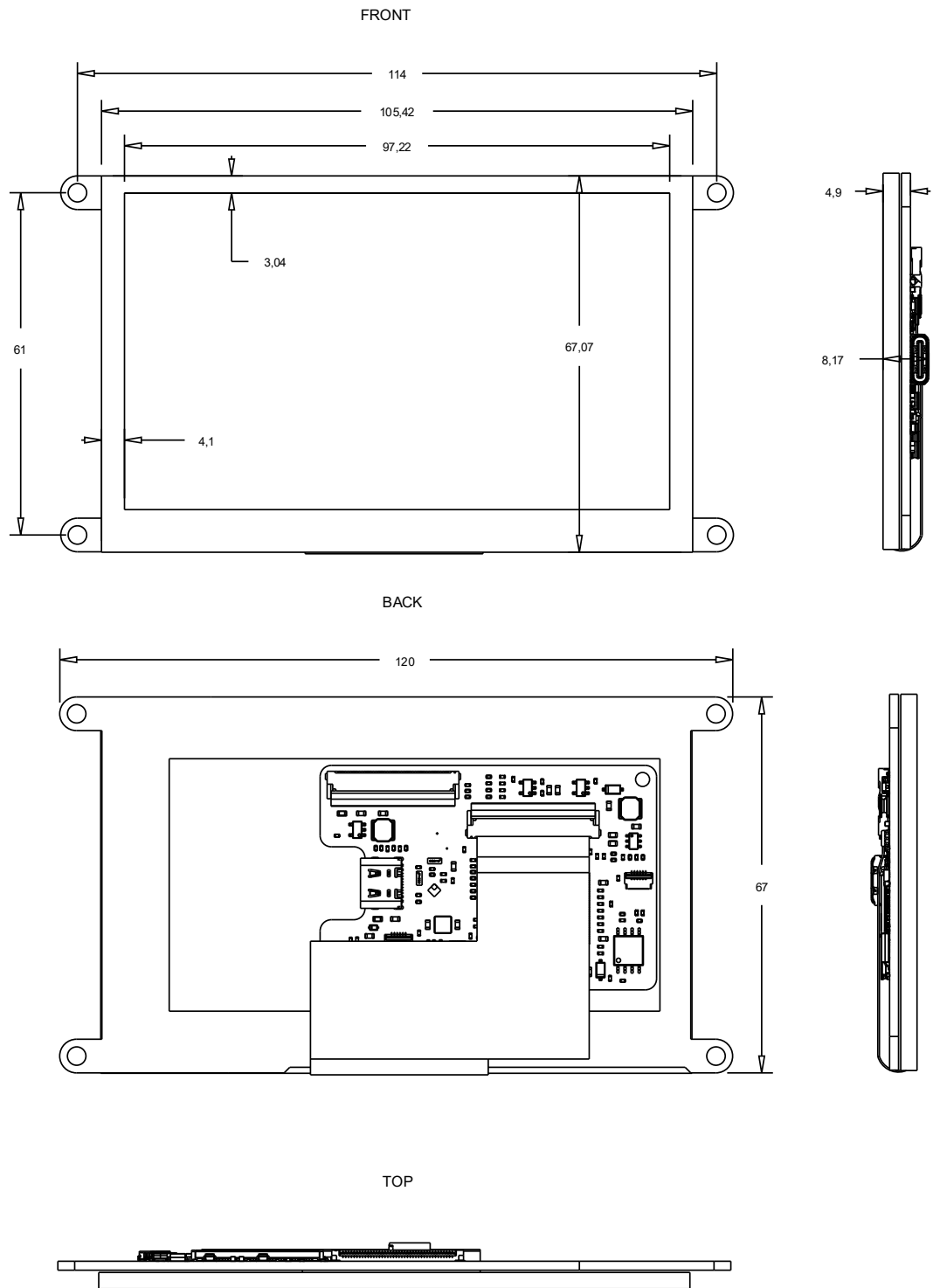
Example code for Linux

9. Appendix A – Dimensional drawings

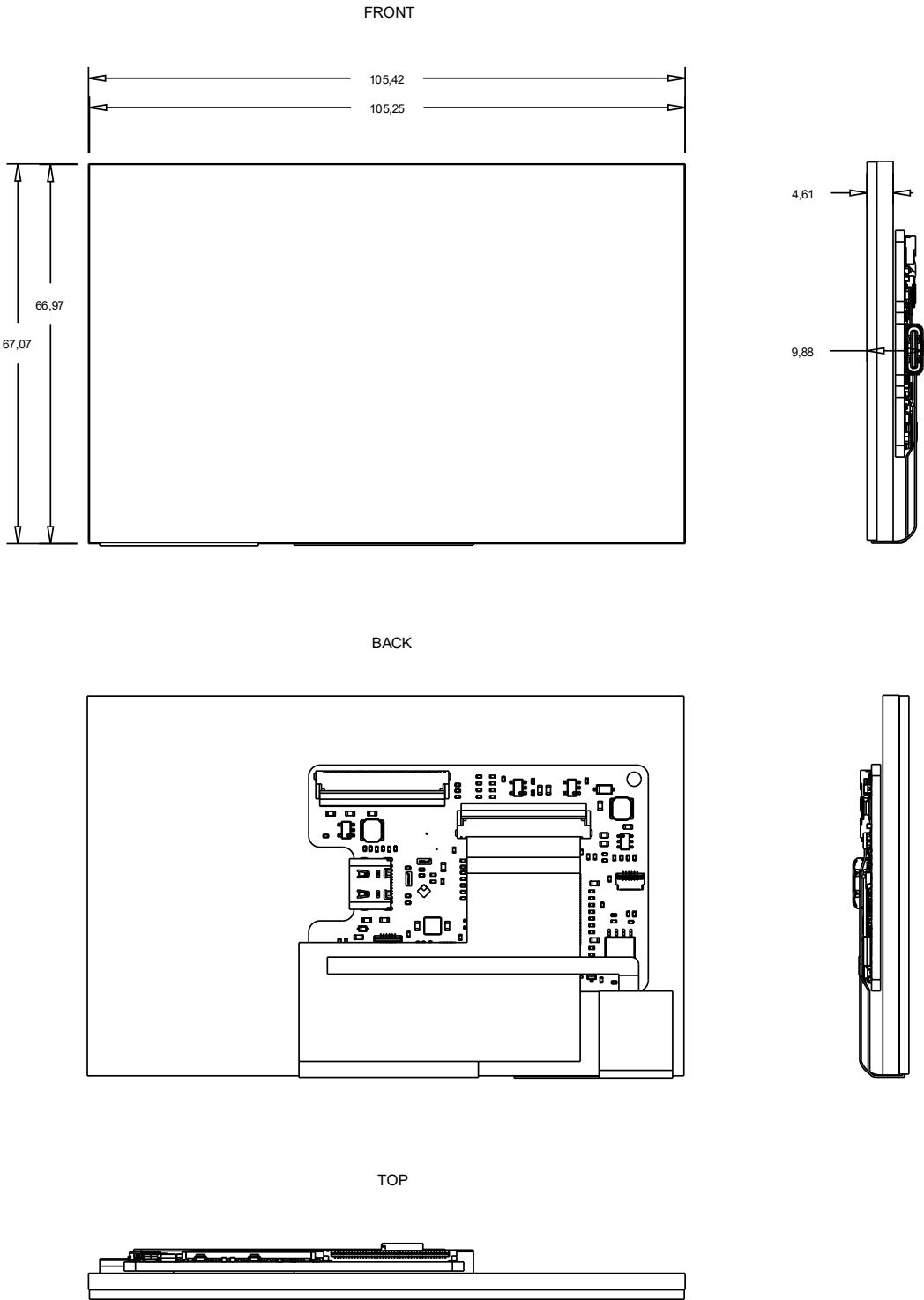
USBD480-NX43



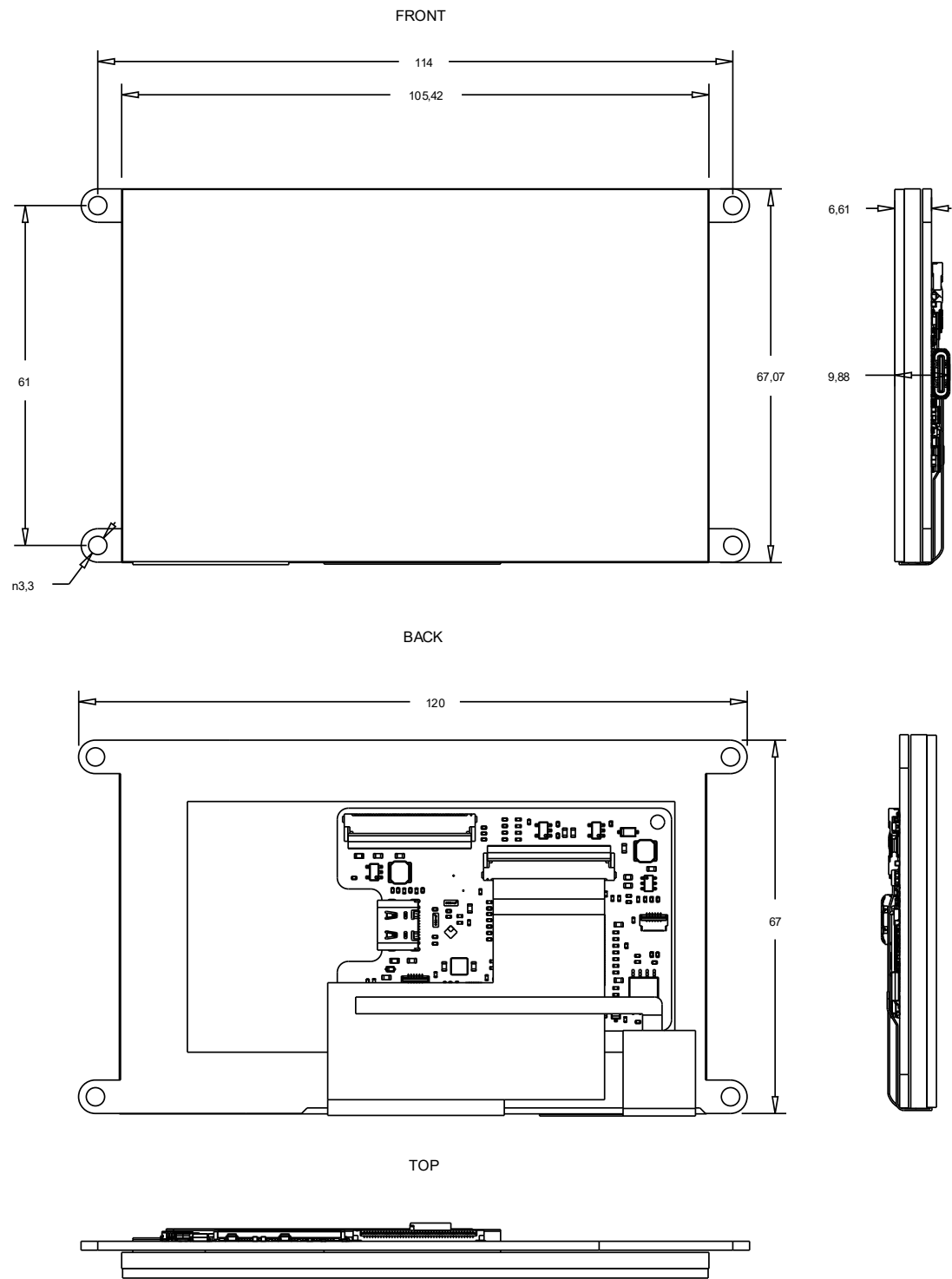
USBD480-NX43-M



USBD480-NX43-CT



USBD480-NX43-CT-M



10. Document revision history

0.0 – Initial draft