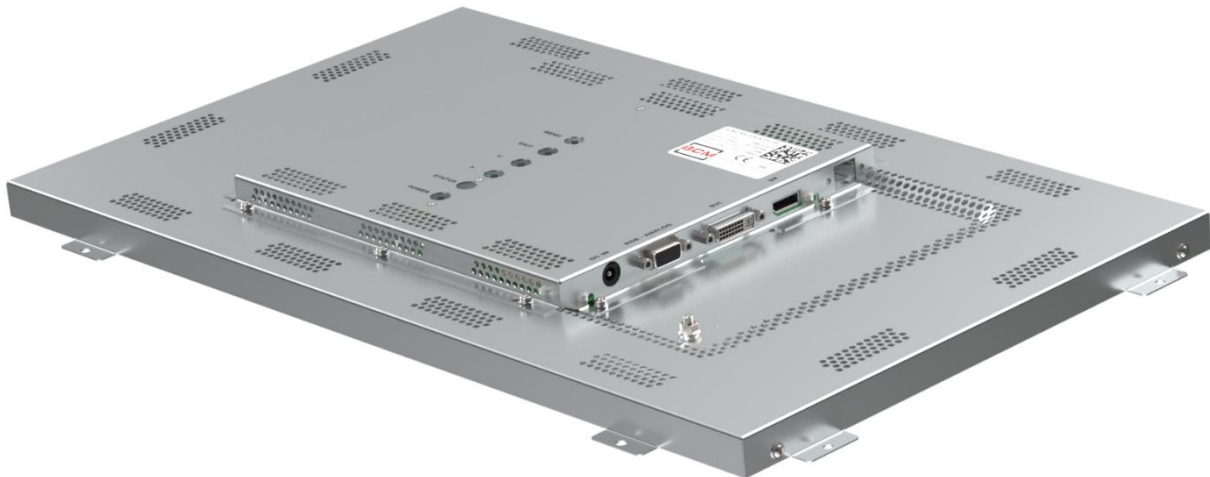


Short Form Specification

Beck Compact Module SCM21H02-R RGB/DVI/DP



June 2024

Preliminary

The information given in this document is carefully checked and believed to be reliable. However, Beck GmbH & Co. Elektronik Bauelemente KG takes no responsibility for any failure or product damage caused by application of this information. Please check all connections carefully with the product specification.

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This specification is subject to change without notification.

1. General Features

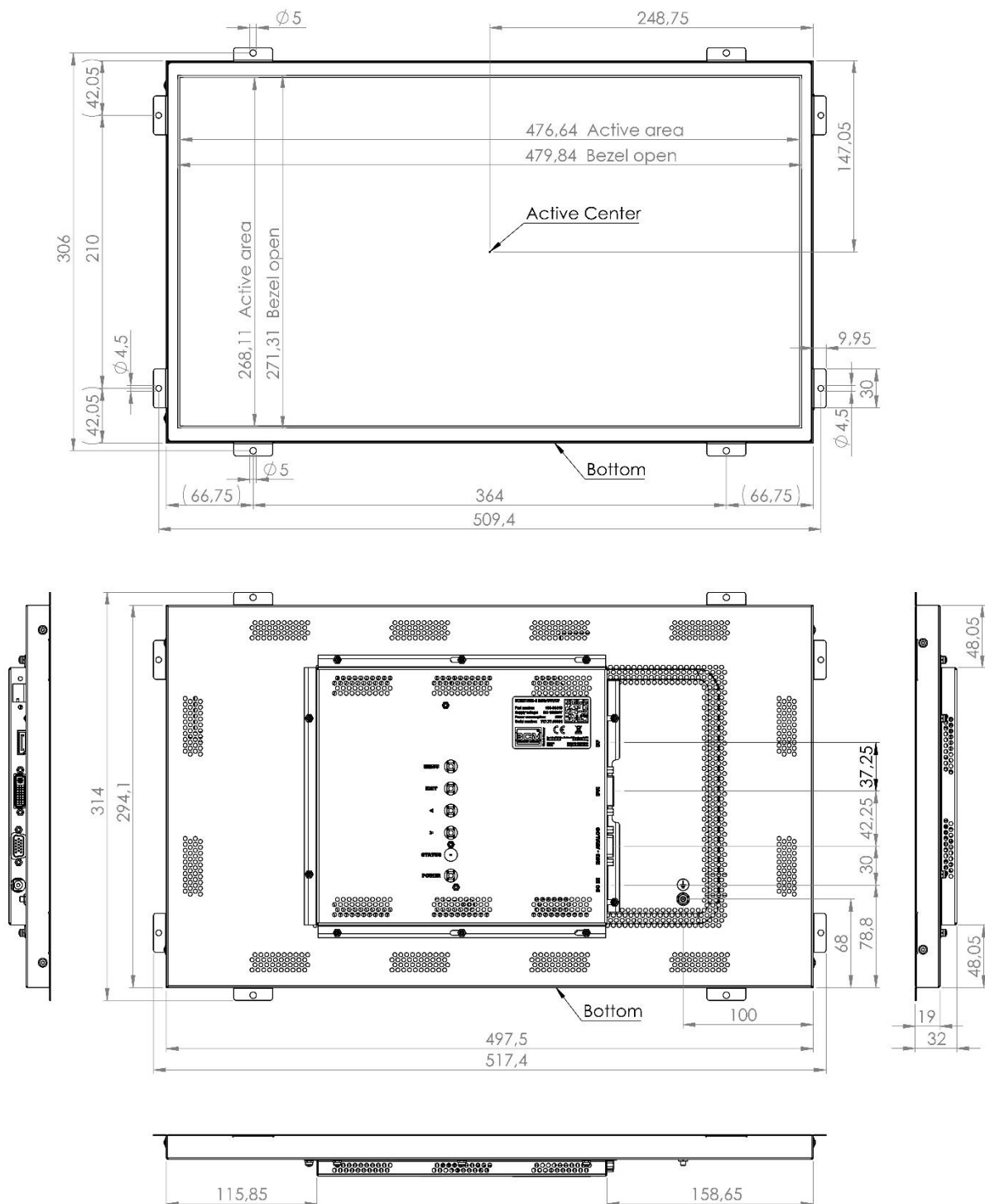
| Item | Description | Unit |
|-------------------------|---|-------------------|
| Diagonal | 54.6 (21.5") | mm |
| Active area | 476.64 (H) x 268.11 (V) | mm |
| Resolution – display | 1920 x 1080 | pixel |
| Resolution – controller | 640 x 480 – 1920 x 1080 | pixel |
| Pixel pitch | 0.248 (per one traid) x 0.248 | mm |
| Pixel arrangement | R.G.B. vertical stripe | |
| Display colors | 16.7 M | colors |
| Display mode | VA mode, normally black | |
| Brightness | 300 | cd/m ² |
| Contrast ratio | 5000:1 | |
| Viewing angle | 89 / 89 / 89 / 89 | deg. |
| Response time | 25 | msec |
| LED Backlight life | min 50,000 | hrs |
| Interface | Analog-RGB H-Sync. / V-Sync. // DVI // DP | |
| Touch | Not available | |
| Power input voltage | 12 / 24 | V DC |
| Power consumption | 20 | W |
| Dimension | 517.4 x 314 x 32.05 | mm |
| Weight | 3,300 | gram |
| VPE | 4 | |
| Remark | wide view (MVA) | |

Power Input Connector

Type: DC Jack

| Pin No. | Symbol | Description | Note |
|---------|--------|-------------|--------|
| 1 | Vin | 12 / 24V DC | Center |
| 2 | GND | GND | |

Figure 1: Mechanical Outlines



2. Handling & Cautions

Cautions when taking out the module

- Pick the pouch only, when taking out module from a shipping package.

Cautions for handling the module

- As the electrostatic discharges may break the LCD module, handle the LCD module with care. Peel a protection sheet off from the LCD panel surface as slowly as possible.
- As the LCD panel and backlight element are made from fragile glass material, impulse and pressure to the LCD module should be avoided.
- As the surface of the polarizer is very soft and easily scratched, use a soft dry-cloth without chemicals for cleaning.
- Put the module display side down on a flat horizontal plane.
- Handle connectors and cables with care.

Cautions for the atmosphere

- Dewdrop atmosphere should be avoided.
- Do not store and/or operate the LCD module in a high temperature and/or humidity atmosphere. Storage in an electro-conductive polymer-packing pouch and under relatively low temperature atmosphere is recommended.

Cautions for the module characteristics

- Do not apply fixed pattern data signal to the LCD module at aging time.
- Applying fixed pattern for a long time may cause image sticking.

Other cautions

- Do not disassemble and/or re-assemble LCD module.
- Do not re-adjust variable resistor or switch etc.
- When returning the module for repair or etc., please pack the module not to be broken. We recommend on using the original shipping packages.

3. Packing Information

Each of the four SCM21H02-R RGB/DVI/DP is packed into an anti-static foil. These four units of SCM21H02-R RGB/DVI/DP are packed into a carton filled and cushioned with shock absorbing carton and therefore good protected for shipping on euro pallet.

4. Optional Accessories

We refer to our webpage:

<https://www.beck-elektronik.de/produkte/displays/beck-compact-module/>

We offer a wide variety of optional accessories to operate the SCM21H02-R RGB/DVI/DP.