

# *Short Form Specification*

## Beck Compact Module BCM19EG6-R RGB/DVI



September 2022

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	48.3 (19.0")	mm
Active area	376.32 (H) x 301.06 (V)	mm
Resolution – display	1280 x 1024	pixel
Resolution – controller	640 x 480 – 1280 x 1024	pixel
Pixel pitch	0.294 (per one traid) x 0.294	mm
Pixel arrangement	R.G.B. vertical stripe	
Display colors	16.7 M	colors
Display mode	normally white	
Brightness	350	cd/m <sup>2</sup>
Contrast ratio	1000:1	
Viewing angle	85 / 80 / 85 / 80	deg.
Response time	5	msec
LED Backlight life	min 50,000	hrs
Interface	Analog-RGB H-Sync. / V-Sync. // DVI	
Touch	Not available	
Power input voltage	12	V DC
Power consumption	20	W
Dimension	396.0 x 324.0 x 21.9	mm
Weight	2,300	gram
VPE	5	
Remark	high brightness, fast response time	

## 2. Input Connectors

**Power Connector**  
Molex: 43650-0212



Pin	Signal	Description	Type
1	GND	Ground	GND
2	VIN	12V power input	PWR

**DVI Connector (J1)**  
Yeonho: 20022WR-13



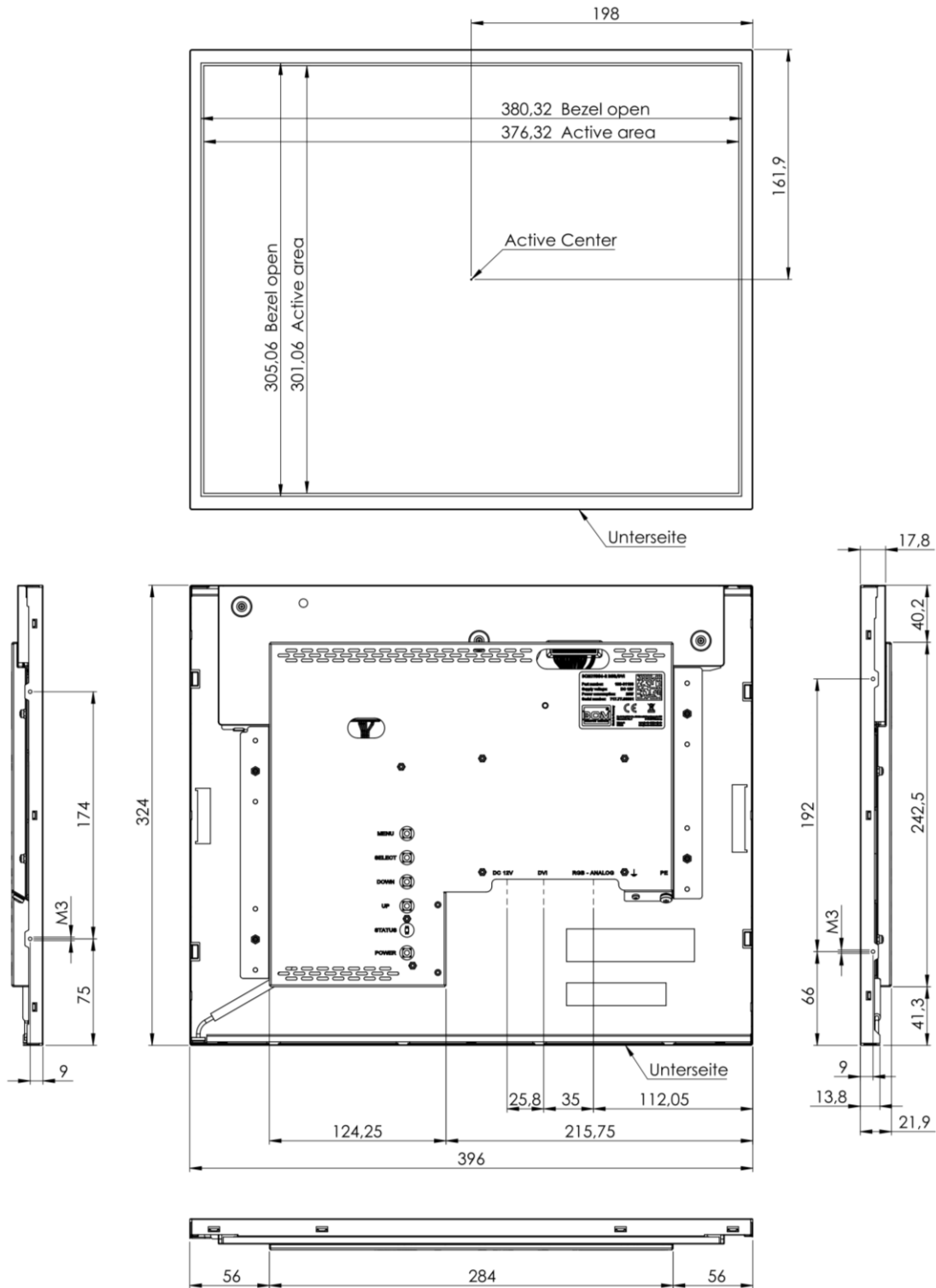
Pin	Signal	Description	Type
1	SDA	DDC data	I/O
2	SCL	DDC clock	I/O
3	D2+	T.M.D.S. Data2+	I
4	D2-	T.M.D.S. Data2-	I
5	GND	T.M.D.S. Data2 shield	GND
6	D1+	T.M.D.S. Data1+	I
7	D1-	T.M.D.S. Data1-	I
8	GND	T.M.D.S. Data1 shield	GND
9	D0+	T.M.D.S. Data0+	I
10	D0-	T.M.D.S. Data0-	I
11	GND	T.M.D.S. Data0 shield	GND
12	RXC+	T.M.D.S. Clock+	I
13	RXC-	T.M.D.S. Clock-	I

**VGA Connector (J2)**  
Yeonho: 20022WR-13



Pin	Signal	Description	Type
1	AHS	Horizontal sync	I
2	GND	Ground	GND
3	AVS	Vertical sync	I
4	GND	Ground	GND
5	B0+	Blue signal	I
6	B0-	Blue ground	I
7	G0+	Green signal	I
8	G0-	Green ground	I
9	R0+	Red signal	I
10	R0-	Red ground	I
11	SCL	DDC clock	I/O
12	SDA	DDC data	I/O
13	n.c.	-	n.c.

**Figure 1: Mechanical Outlines**



### 3. 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.

### 4. Packing Information

Each of the five BCM19EG6-R RGB/DVI is packed into an anti-static foil.

These five units of BCM19EG6-R RGB/DVI are packed into a carton filled and cushioned with shock absorbing carton and therefore good protected for shipping on euro pallet.

### 5. 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 BCM19EG6-R RGB/DVI.