

DISPLAY MODULE
BDI 5010
MANUAL

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1. DISPLAY MODULE BDI 5010

1.1. INTRODUCTION

The BDI 5010 display module is primarily designed to augment the ArdoPLC unit with a display and information element. However, there is nothing to prevent it from being used in other applications. The module can also be purchased separately like all ArdoPLC assembly modules. The module contains TFT displays 128 x 160 1.8" and a case for an SD card. The module's great advantage is its size. This allows the module to be inserted into regular boxes designed for mounting on the DIN bar.

1.2. MODULE CONSTRUCTION

As mentioned above, the BDI 5010 display module contains a TFT display 128 x 160 1.8" and a case for an SD card. To ensure compatibility with devices powered by +5V, the plate is equipped with a 3.3V power stabiliser and an input signals converter. Therefore a power supply of +5V is possible. A 10-pin connector is used to connect the module. Its involvement will be set out below.

2. BASIC PARAMETERS MODULE BDI 5010

2.1. MODULE DESIGN AND ELECTRICAL PARAMETERS

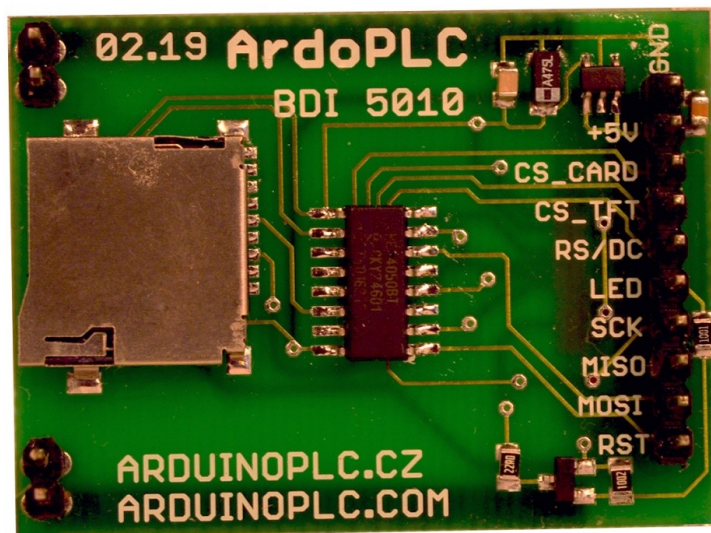
Tab 2.1 Basic parameters

Dimension (length x width x height)	47 x 35 x 12mm
Power module	
Power supply Power input	5V DC Max 0,2W
Connection	
Connectors	Pin head connector

3. CONNECTION MODULE BDI 5010

3.1. CONNECTION OF CONNECTOR

The image and table below show connection of connector



PIN CONNECTOR	FUNCTION PIN
1. GND	Power GND
2. +5V	Power +5V
3. CS_CARD	SD card SPI selection
4. CS_TFT	TFT display SPI selection
5. RS / DC	Display control
6. LED	Display backlight
7. SCK	SPI clock
8. MISO	Output data (SD card)
9. MOSI	Input data (SD card + display)
10. RST	Reset display