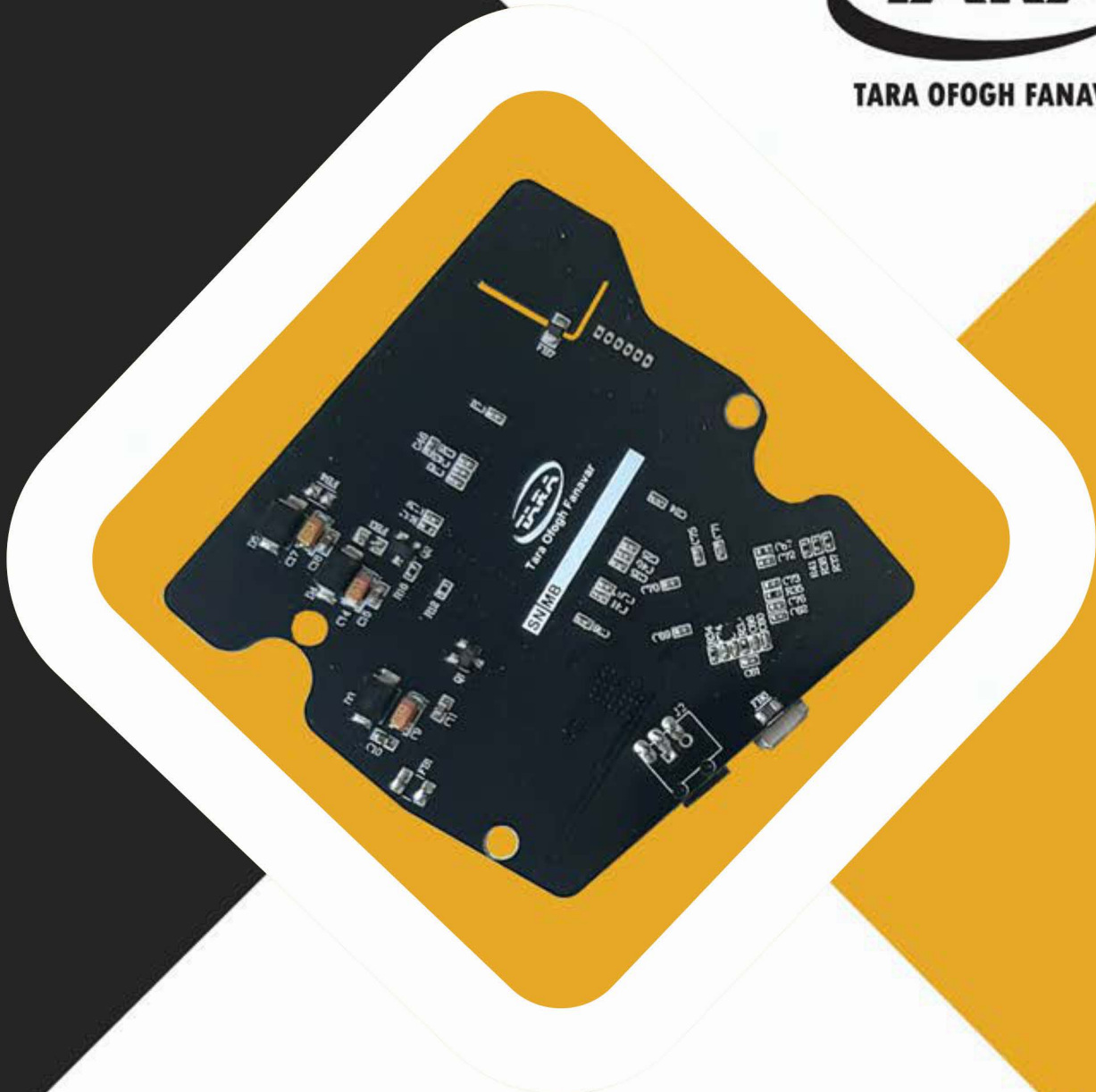




TARA OFOGH FANAVAR



The D1304-01 driver circuit is a powerful hardware module, developed for TCD1304, Toshiba CCD linear image sensors. The circuit takes the advantages of FPGA as the core microprocessor. A 16-bit A/D converter analog signal processing circuit allows users fast data processing. The circuit transfers data to PC and controlled from the PC by a USB Micro 2.0 connector. D1304-01 is compact, lightweight, and easy to handle driver.

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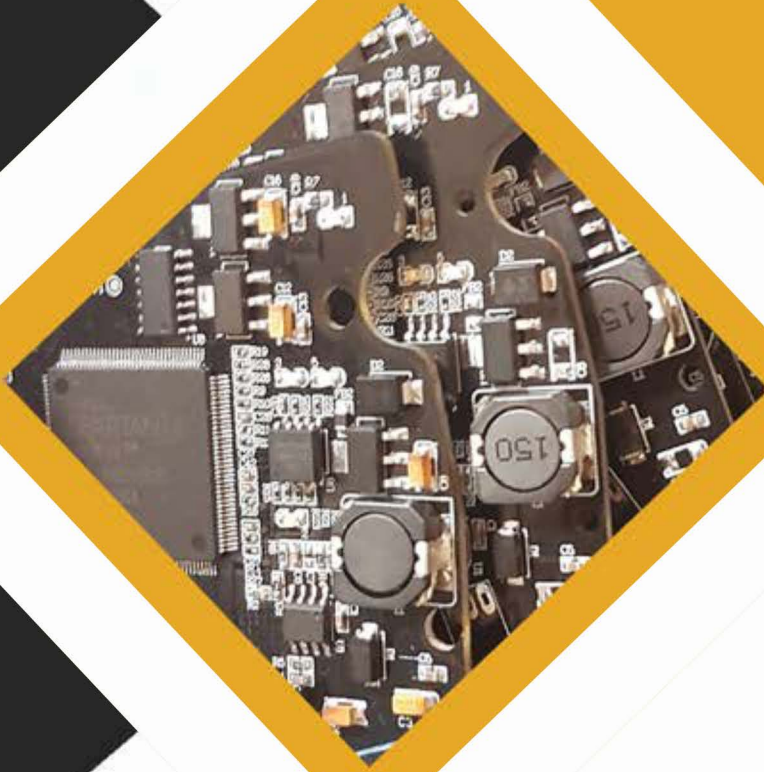
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Features

- **16-bit A/D converter**
- **3648-elements linear image sensors**
- **Adjustable offset**
- **Adjustable integration time**
- **USB Micro 2.0, high speed 480 Mbps, for data transfer interface**
- **Low power consumption**
- **Reliable and stable performance**
- **Compact**
- **Lightweight**

Technical data

Characteristic	Description
Dimensions	Main board: 66*66*8 mm ³ /CCD board: 46*22*10 mm ³
Weight	70gr
Operating Temperature	0-50 °C
Derived for Detector	TCD1304, Toshiba linear CCD array
Pixels	3648 pixels
Power supply	12 VDC 160 mA
Power interface	Coaxial power connector, 2-mm
Data transfer interface	USB Micro 2.0, high speed 480 Mbps
Integration time	10µs-15min
A/D resolution	16 bit
Offset	Adjustable, ranges from -255 to 255, default 0