ELECTRONIC RESEARCH & DESIGN

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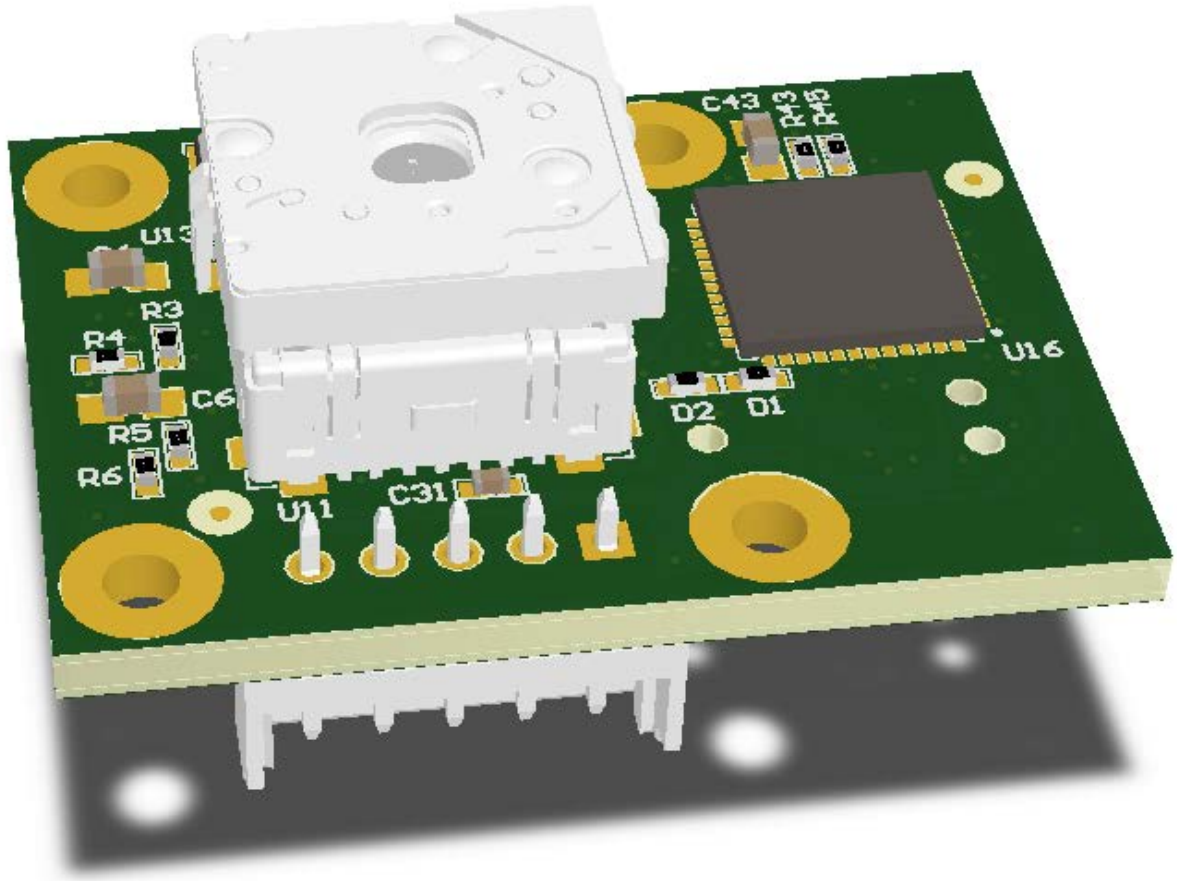
ERD FLIR USB Camera Board

The FLIR USB Camera Board is a standalone module using the FLIR Lepton Core module.



It has the following features based on the FLIR Lepton 3.5:

- Effective Frame Rate - 8.7 Hz (commercial application exportable)
- Output Format - User-selectable 14-bit, 8-bit (AGC applied), or 24-bit RGB (AGC and colorization applied)
- Pixel Size - 12 µm
- Scene Dynamic Range - Low Gain Mode: -10 to 400°C; High Gain Mode: -10 to 140°C
- Spectral Range - Longwave infrared, 8 µm to 14 µm
- Temperature Compensation - Automatic. Output image independent of camera temperature.
- Thermal Sensitivity - <50 mK (0.050° C)

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- Non-Operating Temperature Range - 40 °C to +80 °C
- Optimum Temperature Range - -10 °C to +80 °C
- Shock - 1500 G @ 0.4 ms
- Array format - 160 x 120, progressive scan
- FOV – Diagonal - 71°
- FOV – Horizontal - 57° (nominal)
- Power Dissipation - 150 mW (operating), 650 mW (during shutter event), 5 mW (standby)
- USB Conversion to UVC based on GroupGets Smart IO module – adapted for efficiency.
- P7 (USB) Connector Pinout:
    1. GND
    2. ID
    3. D+
    4. D-
    5. VBUS (5V) Power to module.

Linux paid support available:

To order the board (and related stacker boards), please contact:

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