

Linera FMU3G-S6 Series FPGA Module with USB 3.0 interface and MGT Support

USB3 CONNECTIVITY

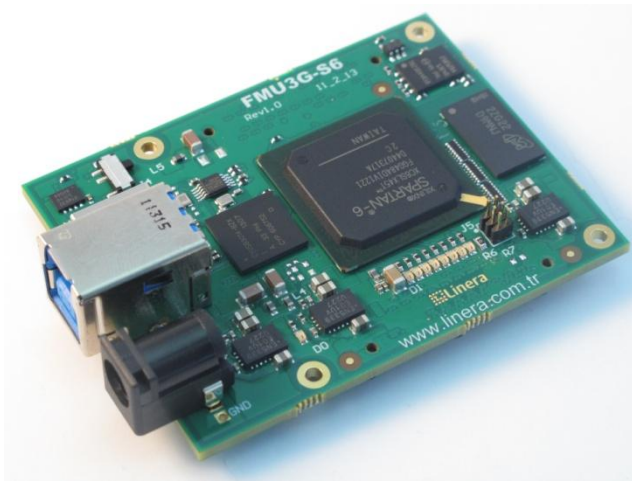
FMU3G series FPGA modules are equipped with a USB 3.0 port. The on-board FPGA can communicate with a host PC through the USB 3.0 port with unprecedented speed (~340 MB/sec sustained transfers)

EASY INTEGRATION

FMU3G series FPGA modules can be mounted on a carrier board using 2 high-speed connectors. There are 136 I/O pins available to the end-user. The board is supplied with drivers and API for easy USB3.0 communication with a PC.

FLEXIBILITY

The on-board FPGA on FMU3G series modules can be programmed via the USB port, via JTAG or via the on-board Flash. There is a Micro-SD card slot accessible via the FPGA and 1Gbit DDR3 SDRAM.



FEATURES

- 65mm x 50mm board size
- USB 3.0 Connectivity, including software drivers and APIs
- High speed, gigabit transceiver links
- Xilinx Spartan6 LX45T application FPGA (Available also with LX150T)
- 1Gbit DDR3 SDRAM (Optional 2 or 4 Gbit)
- MicroSD card slot, accessible from FPGA
- Very easy to integrate: Single 5V supply
- Programmable via USB3.0 port, JTAG or the on-board flash
- Two 100-pin high speed board-to-board connectors to mount on a host-board.
- 136 user I/O signals. 66 differential pairs
- 8 User LEDs on-board
- Pin-compatible with FMG-S6 series
- On-board, programmable clock generator, with available SSC

APPLICATIONS

- Image processing
- Video processing
- FPGA co-processing
- Data acquisition
- Industrial control
- Semiconductor evaluation
- Digital system prototyping
- Test equipment development

BLOCK DIAGRAM

