

Linera FMG-S6 Series FPGA Module with MGT Support

COMPACT

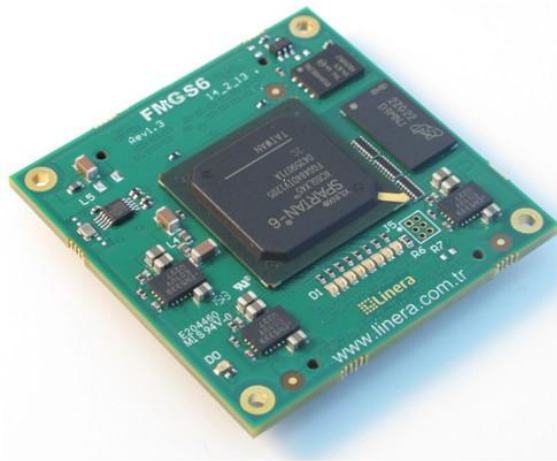
FMG-S6 series FPGA modules measure 50mm x 50mm. The module is pin compatible with FMU3G-S6 series

EASY INTEGRATION

FMG-S6 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.

FLEXIBILITY

The on-board FPGA on FMG series modules can be programmed via JTAG or via the on-board Flash. There is a 1Gbit DDR3 SDRAM available.



FEATURES

- 50mm x 50mm board size
- 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 FMU3G-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

