GENERAL INFORMATION

- Optimized for quickly prototyping embedded applications.
- Hardware, design tools, IP and pre-verified reference designs.
- Demonstrates an embedded design, targeting video pipeline.
- Advanced memory interface with 1GB DDR3 Component Memory.
- Enabling serial connectivity with USB OTG, UART, IIC, CAN Bus.
- Supports embedded processing with Dual ARM Cortex-A9 core processors
- Develop networking applications with 10-100-1000 Mbps Ethernet (GMII, RGMII and SGMII)
- Implement Video display applications with HDMI out
- Expand I/O with the FPGA Mezzanine Card (FMC) interface

TECHNICAL SPECIFICATION

**Configuration**
- Onboard configuration circuitry
- 16MB Quad SPI Flash
- SDIO Card Interface (boot)
- PC4 and 20 pin JTAG ports

**Video/ Display**
- HDMI Video OUT
- 8X LEDs

**Power**
- 12V wall adapter or ATX
- Voltage and Current measurement capability of supplies

**Memory**
- DDR3 Component Memory 1GB
- Support 32 data width
- 16MB Quad SPI Flash
- IIC - 1 KB EEPROM

**Clocking**
- 200MHz Fixed PL Oscillator (Differential LVDS)
- 156.25MHz (default) I2C Programmable Oscillator (Differential LVDS)
- 33.33MHz Fixed PS System Oscillator (Single-Ended CMOS)

**Control & I/O**
- 3 User Push Buttons
- 2 User Switches
- 8 User LEDs

**Analog**
- XADC header

**Expansion Connectors**
- FMC #1-LPC connector (0 GTX Transceiver, 68 single-ended or 34 differential user defined signals)
- FMC #2-LPC connector (0 GTX Transceiver, 68 single-ended or 34 differential user defined signals)
- IIC HUB/Expander
- Dual Pmod (8 I/O Shared with LED's)
- Single Pmod (4 I/O Shared with PJTAG)

**Communication & Networking**
- Gigabit Ethernet GMII, RGMII and SGMII
- USB OTG 1 (PS) - Host USB
- IIC Bus Headers/HUB (PS)
- 1 CAN with Wake on CAN (PS)
- USB UART (PS)

Manuals:
(1) All manuals are written in English
(2) Model Answer
(3) Teaching Manuals

General Terms:
(1) Accessories will be provided where applicable.
(2) Manuals & Training will be provided where applicable.
(3) Designs & Specifications are subject to change without notice.
(4) We reserve the right to discontinue the manufacturing of any product.

Warranty:
- 2 Years

ORDERING INFORMATION :

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<thead>
<tr>
<th>ITEM</th>
<th>MODEL NUMBER</th>
<th>CODE</th>
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<tr>
<td>FPGA TRAINING KIT</td>
<td>GOTT-FPGA-78</td>
<td>620-013</td>
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