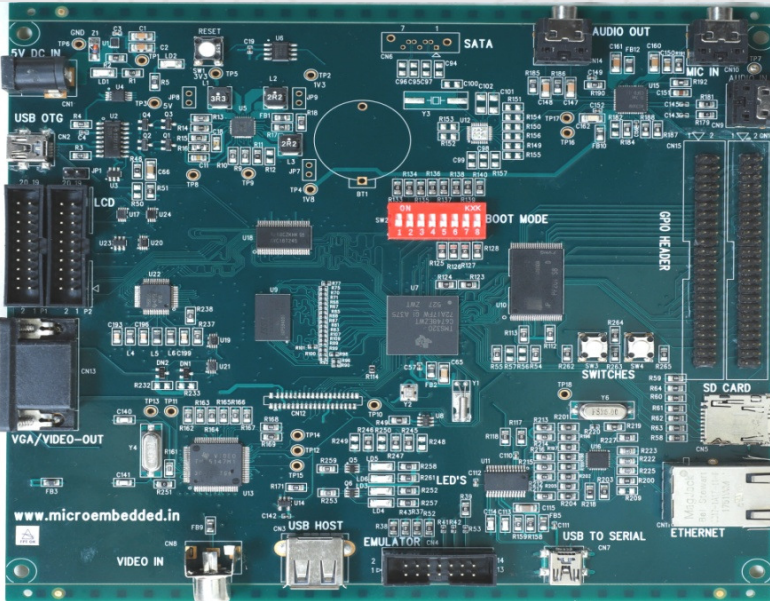# MicroDSP6748 Digital Signal Processing Platform based on TMS320C6748
(Fixed and floating point DSP) from Texas Instruments

Based on the TMS320C6748 DSP processor from Texas instruments, the MicroDSP6748 Development board from Microembedded Technologies is a very robust, easy to use development platform for seasoned as well as new learners of DSP technology. The development board can be used for simple signal processing analytics to real time audio and video processing

BOARD FEATURES

- **TMS320C6748 DSP processor working @ 375/456 Mhz**
- **Support Fixed point and Floating point Instruction Set**
- **128 MByte DDR2 SDRAM**
- **128 Mbyte Nand Flash**
- **USB-Serial (FTDI) Port (mini-USB)**
- **USB Host Port – 1 No**
- **USB OTG Port – 1 No**
- **Fast Ethernet Port (10/100 MBPS)**
- **Video DAC IC – THS8135.**
- **VGA Port (15 Pin DSUB Connector)**
- **Provision for SATA Port**
- **On chip RTC**
- **LCD interface connector (Beagleboard-XM connector)**
- **Audio DAC IC – TLV 320AIC3106**
- **Stereo Codec with Line IN, MIC IN & LINE OUT**
- **Video CODEC IC- TVP5147**
- **Composite Video IN (RCA Jack)**
- **Leopard Imaging Camera Input (32 Pin Zip Connector)**
- **Micro SD slot Interface**
- **Two USER input switches**
- **4 General Purpose LEDs**
- **Reset supervisor circuitry with Reset LED Indication**
- **UART Interface for debug console on USB Port**
- **LED Indication for UART debug console**
- **Provision for I2C RTC with Battery backup**
- **Onboard LED to indicate Voltage error**
- **Overvoltage Protection circuit with LED Indication**
- **Boot selection switches**
- **More than 32 GPIO pins on FRC connectors**
- **14 Pin JTAG Connector**
- **Attractive Box Enclosure**

DELIVERABLES

- **MicroDSP6748 Board**
- **5V/1.5A SMPS power supply adapter**
- **XDS100 emulator**
- **User manual and related documentation**
- **Source codes in C**
- **Code Composer Studio IDE**
- **Aux Cable**
- **CCD camera Module (Optional)**

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