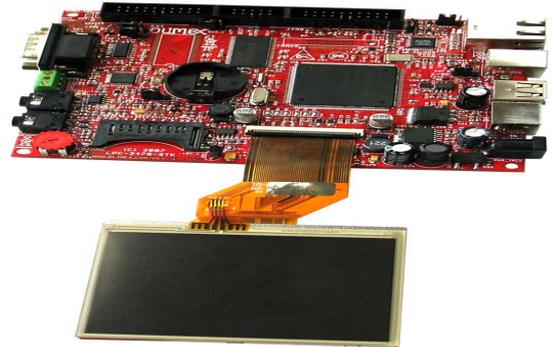




Olimex - LPC-2478STK - ARM - Development Board

Product Overview:

LPC-2478STK is a starter kit which uses MCU LPC2478 from NXP. This powerful MCU supports various serial interfaces such as USB host, USB device, UART, CAN, etc. In addition you will find also audio input and output as well as MP3 decoder, digital accelerometer, JTAG, Ethernet, touch screen TFT display and SD/MMC card connector on this board. All this along with the ARM7TDMI-S™ architecture and uC Linux allow you to build a diversity of powerful applications to be used in a wide range of situations



Key Features:

The LPC-2478STK has the following features:

- MCU: LPC2478
- LCD 3.5" 320x240 24bit color TFT color with backlight and touch screen
- MP3 decoder DSP + codec VS1002D
- 3-axis digital accelerometer with 11 bit accuracy
- 64MB SDRAM
- USB host connector
- USB device connector
- IrDA transceiver (optional)
- MICTOR trace connector (optional)
- PS2 keyboard connector
- 100Mbit Ethernet
- CAN driver and connector
- RS232 with ICSP control
- SD/MMC card connector
- JTAG connector
- (optional) MICTOR TRACE connector
- Reset button and circuit
- 2 buttons
- 1 trim pot
- UEXT connector
- Audio IN

- Audio OUT
- RTC battery
- FR-4, 1.5 mm, red solder mask, component print
- Dimensions: 134.6x101.6mm (5.3 x 4.0")

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
LPC-2478STK	Olimex	1701509	25R4708

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
LPC-2478	NXP	Single-chip 16-bit/32-bit MCU	1564400	71J3843
MC34063ADG	ON Semiconductor	1.5A, Step-Up/Down/ Inverting Switching Regulators	45J1208	1211119
KSZ8721BL	Micrel	PHY Transceiver	1517240	87H7297
LM3526M-H/NOPB	National Semiconductor	Dual Port USB Power Switch and Over-Current Protection	1469237	41K4868
LQ035Q3DW02	Sharp	TFT DISPLAY, 3.5",	1685285	56P5145

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
LPC-L2294	Olimex	Development Board with 8MB SRAM, 4MB FLASH, CAN, RS232, Ethernet, SD/MMC	LPC2294	1776323	52R3627

Document List:

Datasheets:

Part Number	Description	Size
LPC2478	Single-chip 16-bit/32-bit MCU	425KB
MC34063ADG	1.5 A, Step-Up/Down/ Inverting Switching Regulators	1.38MB

KSZ8721BL	PHY Transceiver	766KB
LM3526M-H/NOPB.	Dual Port USB Power Switch and Over-Current Protection	749KB
LQ035Q3DW02	TFT DISPLAY, 3.5", LED BL	1.18MB

Application Notes:

File Name	Size
AN10764 (LPC24xx USB boot loader)	305KB
Ethernet secondary ISP boot loader	769.2KB
Interfacing 4-wire and 5-wire resistive touch screens to the LPC247x	139.1KB
LPC2000 secondary boot loader for code update using IAP	500.4KB
Migrating to the LPC1700 series	615.1KB
PCB layout guidelines for NXP MCUs in BGA packages	163.7KB
Porting uIP1.0 to LPC23xx/24xx	466.2KB
Using IAP for LPC2000 ARM devices	122.9KB
Using the LPC24xx EMC peripheral to drive SDRAM	196.6KB
Theory and Applications of the MC34063 and μA78S40 Switching Regulator Circuits	395KB
Application Note 694 A DMOS 3A, 55V, H-Bridge: The LMD18200	408KB

Hardware & Software:

File Name	Size
LPC-2478STK schematic	315KB
uClinux-dist-lpc_2478_stk-fixA.patch.bz2 Fix for uClinux from the initial revision of the LPC-2478-STK CD	28.2KB
LPC2478-STK demo code for EW-ARM 5.20	434KB

