Technical details

CPU	Arm Cortex-M4 processor, running at a frequency of up to 180 MHz
On-chip memory	512 kB Flash, 200 kB SRAM, 16 kB EEPROM
Interfaces	SPI (2), UART (2), I2C (2), PWM (6), ADC (6), GPIOs CAN (1), USB (1)

External Peripherals

Ethernet Transceiver	**LAN8720A** Single-Chip Ethernet Physical Layer Transceiver (PHY)
Serial Flash Memory	**AT45DB321E 32-Mbit SPI** Serial-interface sequential access Flash memory

Environmental

Operating Temperature	10°C to +60°C
Relative Humidity	20% to 90% noncondensing

Dimensions

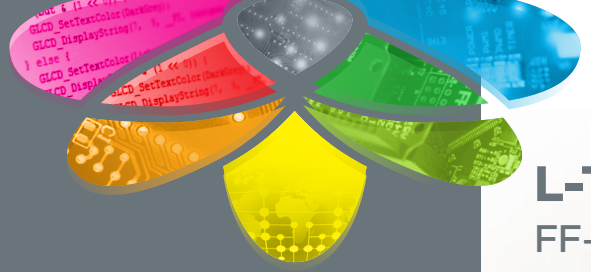
FF-LPC546xx	26.5 × 54 mm

Warranty

For L-Tek FF-LPC546xx, L-Tek provides one year product warranty.

Designed and produced by:
L-Tek d.o.o., Obrtna cesta 18,
8310 Šentjernej - SLOVENIJA (EU)

02/2018 - v1.0



ARM® Cortex®-M4

USB Drag 'n' Drop Programming

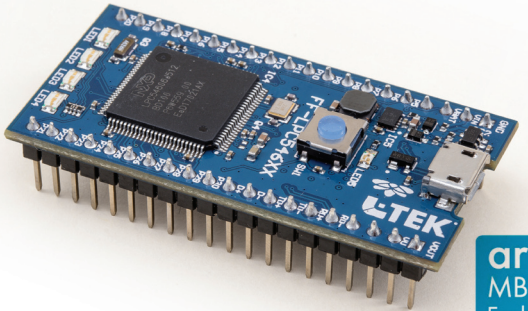
Online Compiler

Mbed™ Enabled

www.l-tek.si

L-TEK®
Your challenges our solutions

L-Tek® IoT
FF-LPC546xx



arm MBED Enabled

Instruction manual

www.mbed.com

The L-Tek FF-LPC546xx is a small, 40-pin development board intended for prototyping general microcontroller applications. It is based on a low-power, peripheral-rich and debug capable NXP LPC54606 microcontroller enhanced with the power-efficient 220 MHz ARM® Cortex®-M4 core, with integrated DAPLink interface for a complete debugging experience.

The latest in the series of mbed Microcontrollers, it supports Ethernet, USB, and the flexibility of numerous peripheral interfaces and FLASH memory (external 32-Mbit SPI serial Flash memory onboard).

Conveniently integrated with a DAPLink programming/debug interface and packaged as a small 40-pin 0.1" DIP, this platform can be used to prototype applications using a wide range of IO boards and peripherals supported by mbed in the mbed Component library, such as mbed Application Board.

For more information visit our web site: **www.l-tek.si**

Features

NXP LPC546xx Microcontroller

- High performance ARM® Cortex™-M4 Core running up to @180 MHz
- 512 kB Flash, 200 kB SRAM, 16 kB EEPROM
- SPI (2)
- UART (2)
- I2C (2)
- PWM (6)
- ADC (6)
- GPIOs
- CAN (1)
- USB (1)

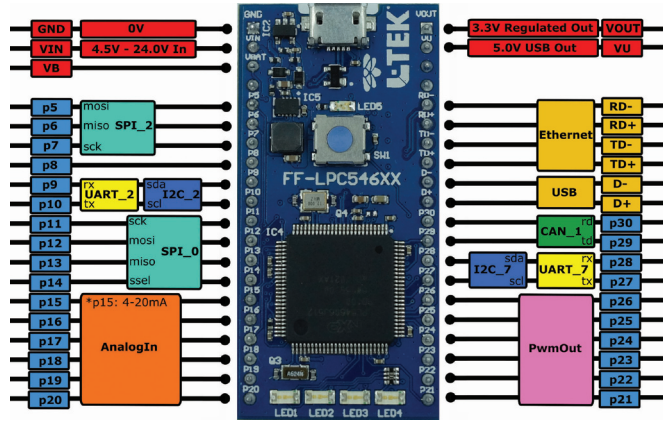
External Peripherals

- LAN8720A Ethernet Transceiver
- AT45DB321E 32-Mbit SPI Serial Flash Memory

Prototyping form-factor

- 40-pin 0.1" pitch DIP package, 54 × 26 mm
- 5 V USB or 4.5-24.0 V supply
- All IO pins are 3.3 V tolerant
- Built-in USB drag 'n' drop FLASH programmer

Pinout diagram



The pinout diagram above shows the commonly used interfaces and their locations. In addition to their stated functions, all GPIO pins can also be used as DigitalIn and DigitalOut interfaces.