

Vývojové dosky [STM32 DISCOVERY](#) predstavujú [strednú vrstvu](#) vývojových dosiek pre mcu rodiny STM32. Prinášame obrazový prehľad všetkých týchto dosiek.

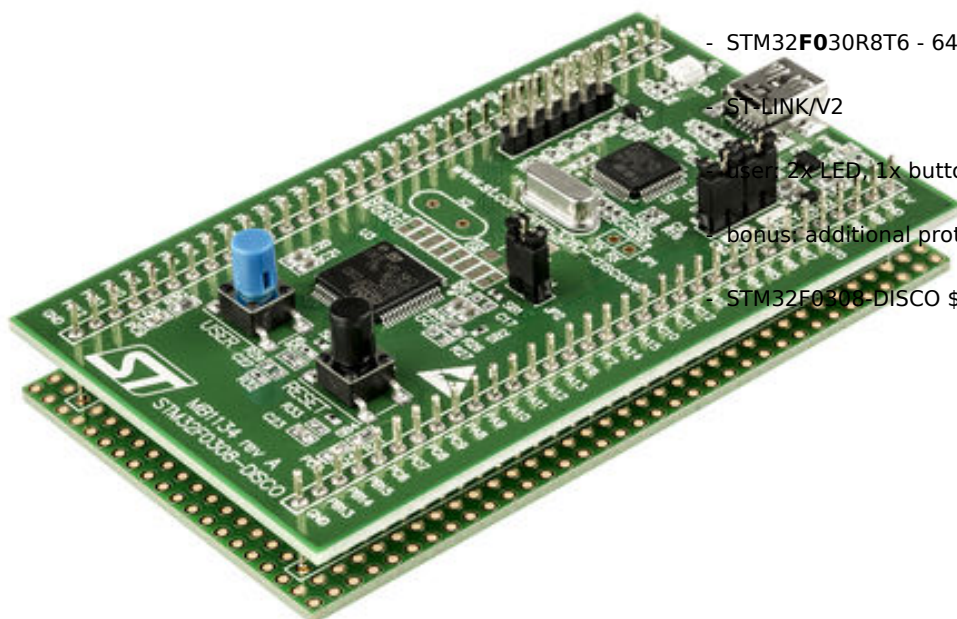
Prehľad je zoradený viac-menej podľa "výkonnosti" jednotlivých rodín, ku ktorým dosky patria.

Kým pri nižších radoch predstavujú DISCOVERY dosky vhodný základ pre experimenty so samotnou doskou a aj pomerne ľahkú možnosť použiť ju ako základ konštrukcie vďaka vyvedeniu väčšiny až všetkých pinov na pripojovacie konektory ("hrebene"), dosky z vyšších radov (najmä tie s veľkými LCD displejmi) sú častokrát vhodné len na demonštráciu periférií a pripojených obvodov prítomných na doske, pričom voľných pinov na pripojovacích konektoroch zostáva len málo.

Objednávacie označenia aj ceny sú uvedené vždy podľa tabuľky na spodnej časti stránky produktu u ST v čase vytvárania tabuľky; oboje sa môže v čase meniť a označenie aj cena u distribútorov sa môžu líšiť. Niektoré dosky majú viac (obvykle evolučných) variant, ak nie je nejaká varianta uvedená v spodnom riadku s cenou, tak sa už oficiálne nepredáva (avšak distribútori ju ešte môžu mať a môžu si ju myliť s novšou verziou).

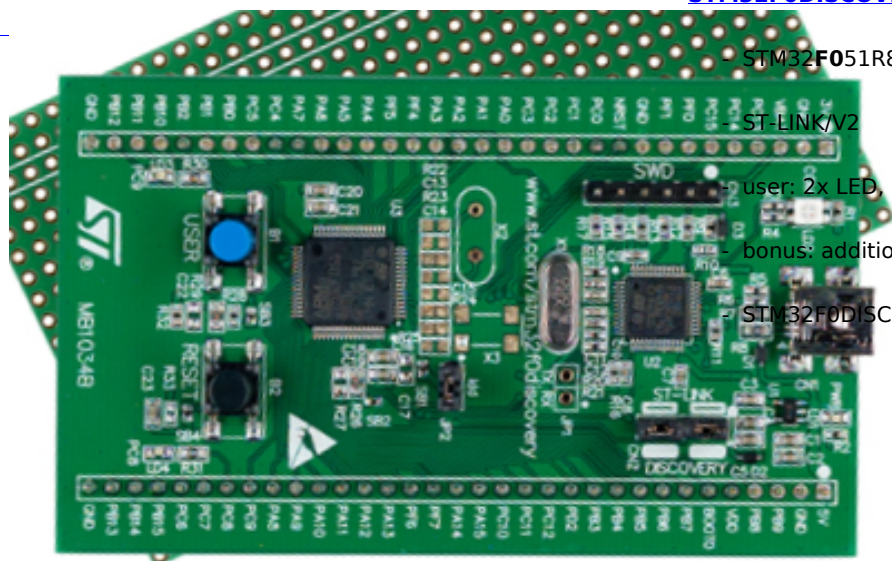
[32F0308DISCOVERY](#)

(Mar.2021) Obsolete



- STM32F030R8T6 - 64 KB FLASH, 8 KB SRAM, LQFP64
- ST-LINK/V2
- user: 2x LED, 1x button
- bonus: additional prototyping board
- STM32F0308-DISCO \$8.70

[STM32F0DISCOVERY](#)

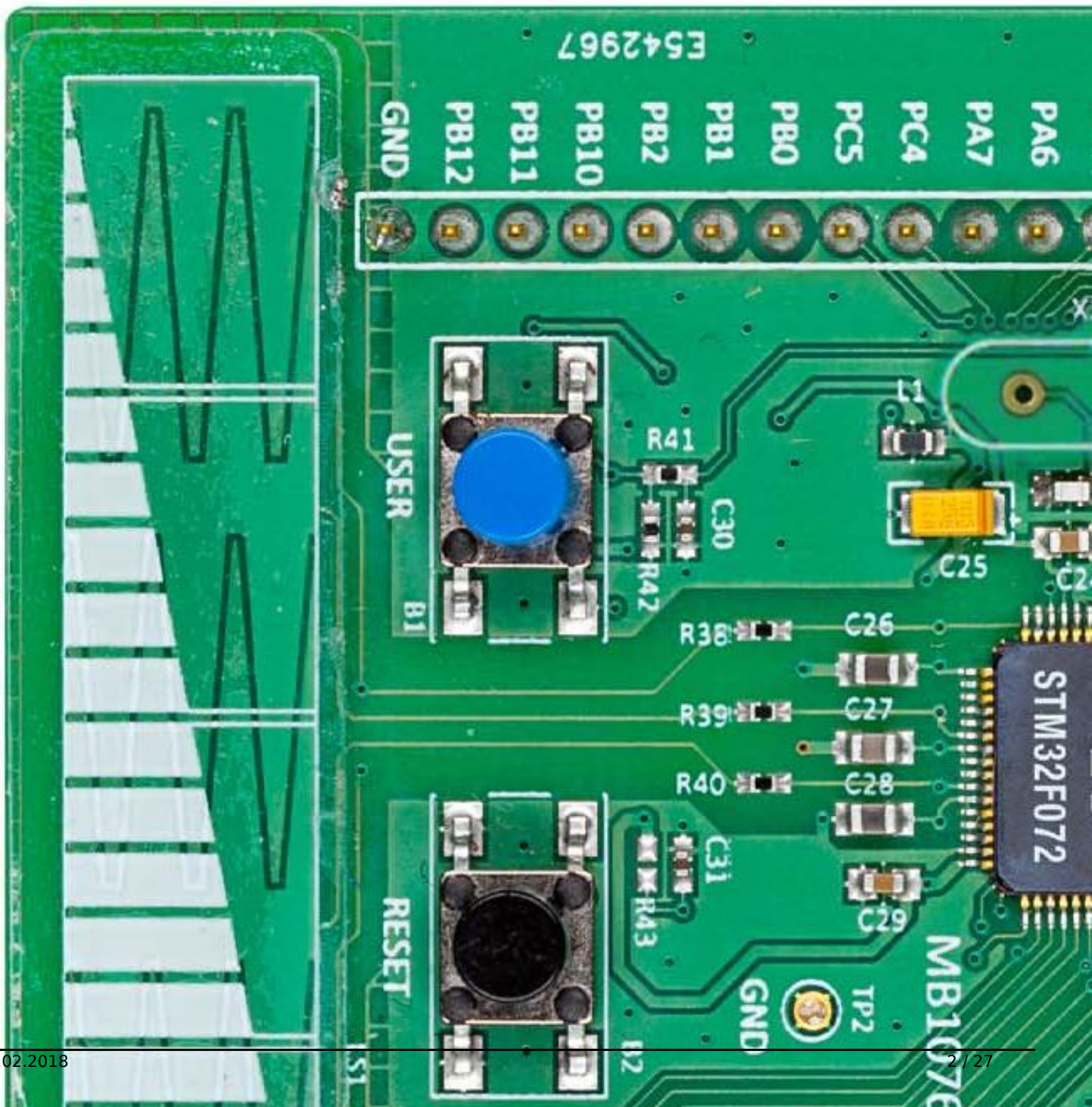


- STM32F051R8T6 - 64 KB FLASH, 8 KB SRAM, LQFP64
- ST-LINK/V2
- user: 2x LED, 1x button
- bonus: additional prototyping board
- STM32F0DISCOVERY \$8.70

[32F072BDISCOVERY](#)

- STM32F072RBT6 - 128 KB FLASH, 16 KB SRAM, LQFP64

- ST-LINK/V2
- user: 4x LED, 1x button
- 1x linear touch sensor/ 4x touchkeys
- User USB with Mini-B connector
- L3GD20 ST MEMS motion sensor 3-axis digital output gyroscope
- RF EEPROM daughterboard connector
- STM32F072B-DISCO \$10.42



32L0538DISCOVERY

- STM32L053C8T6 - 64 KB FLASH, 8 KB SRAM, LQFP48
- ST-LINK/V2-1 (debug + mbed-enabled/MSD + VCP)
- user: 2x LED, 1x button
- E-paper display
 - GDE021A1, 2.04", 172×72 dots (older version, MB1143 Rev.B-01)
 - GDEY0213B74, 2.13", 122 x 250 pixels (newer version, MB1143 Rev.B-03)
- 1x linear touch sensor/ 4x touchkeys
- User USB with Mini-B connector
- IDD current measurement with slave STM32
- RF EEPROM daughterboard connector
- STM32L0538-DISCO \$22.91



STM32VLDISCOVERY

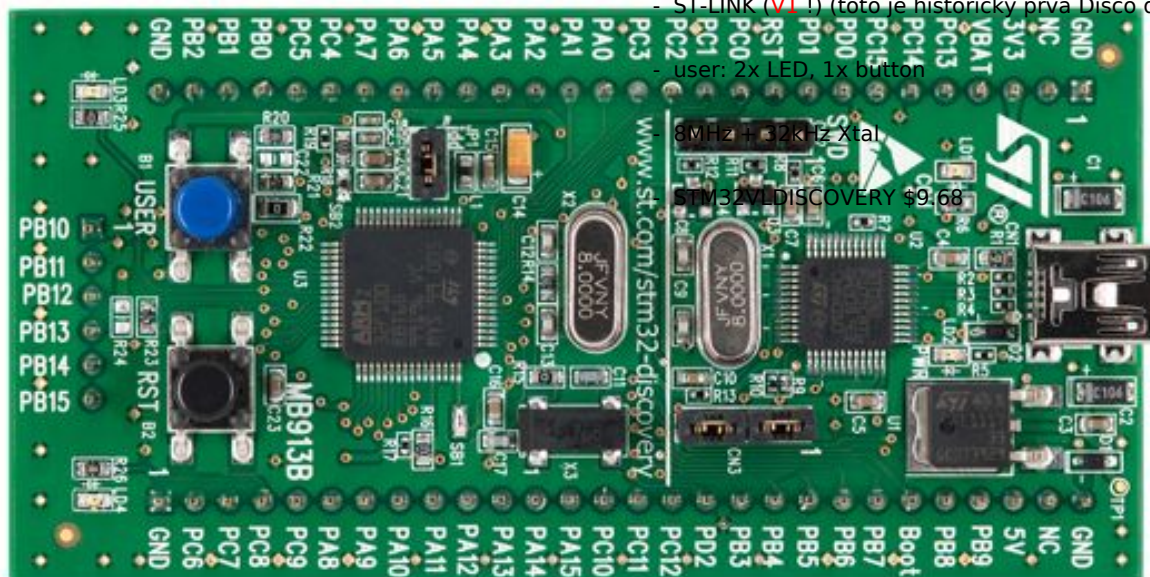
- STM32**F100**RBT6B - 128 KB FLASH, 8 KB SRAM, LQFP64

- ST-LINK (**V1** I) (toto je historicky prvá Disco doska)

- user: 2x LED, 1x button

8MHz + 32kHz Xtal

STM32VLDISCOVERY \$9.68



32L100CDISCOVERY

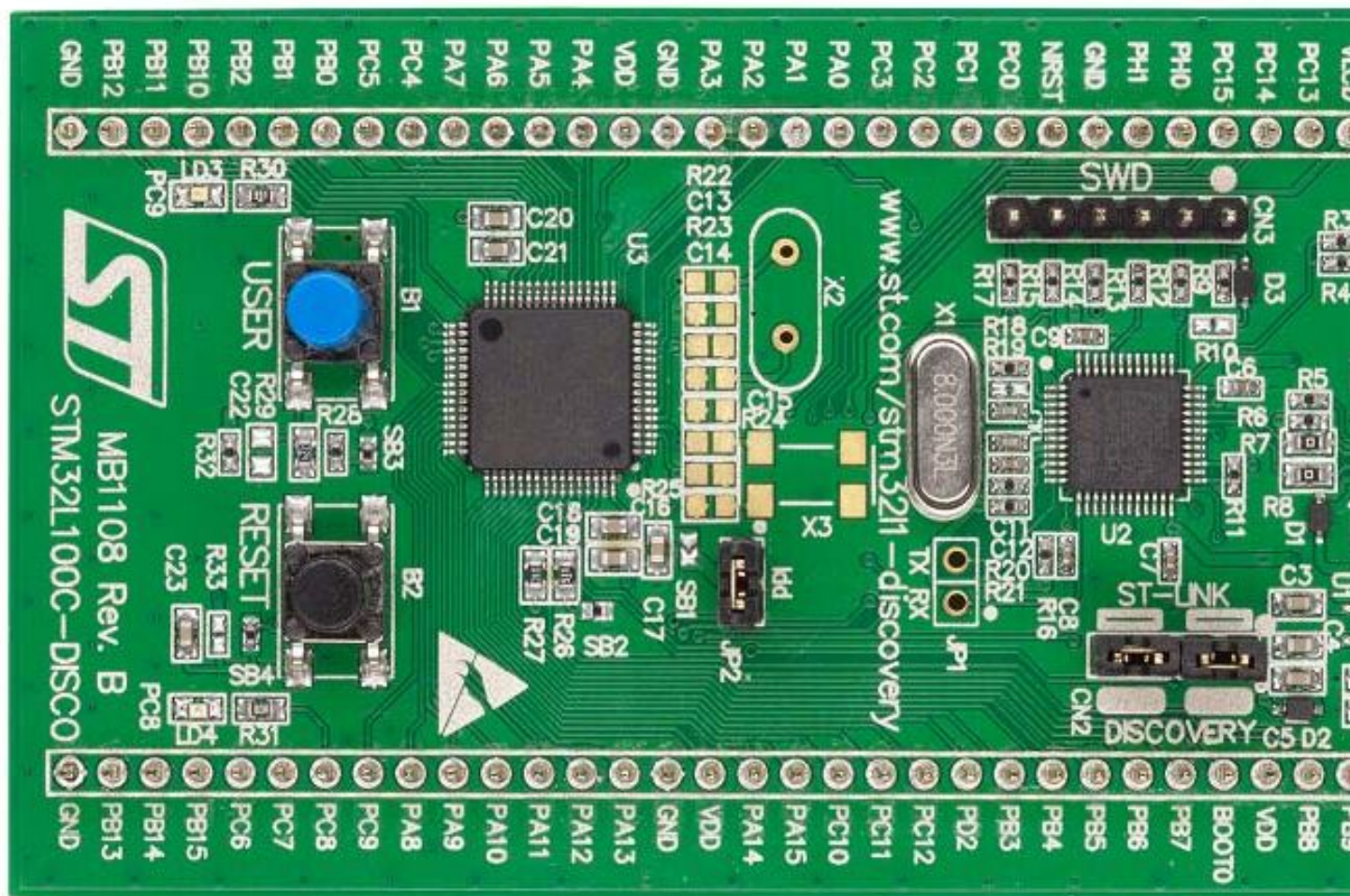
(Jan.2021) Obsolete

- STM32**L100**RCT6 - 256 KB FLASH, 16 KB SRAM, LQFP64

- ST-LINK/V2

- user: 2x LED, 1x button

- STM32L100C-DISCO \$7.72



STM32L-DISCOVERY

- STM32L152RBT6 - 128 KB FLASH, 16 KB SRAM, 4 KB EEPROM LQFP64

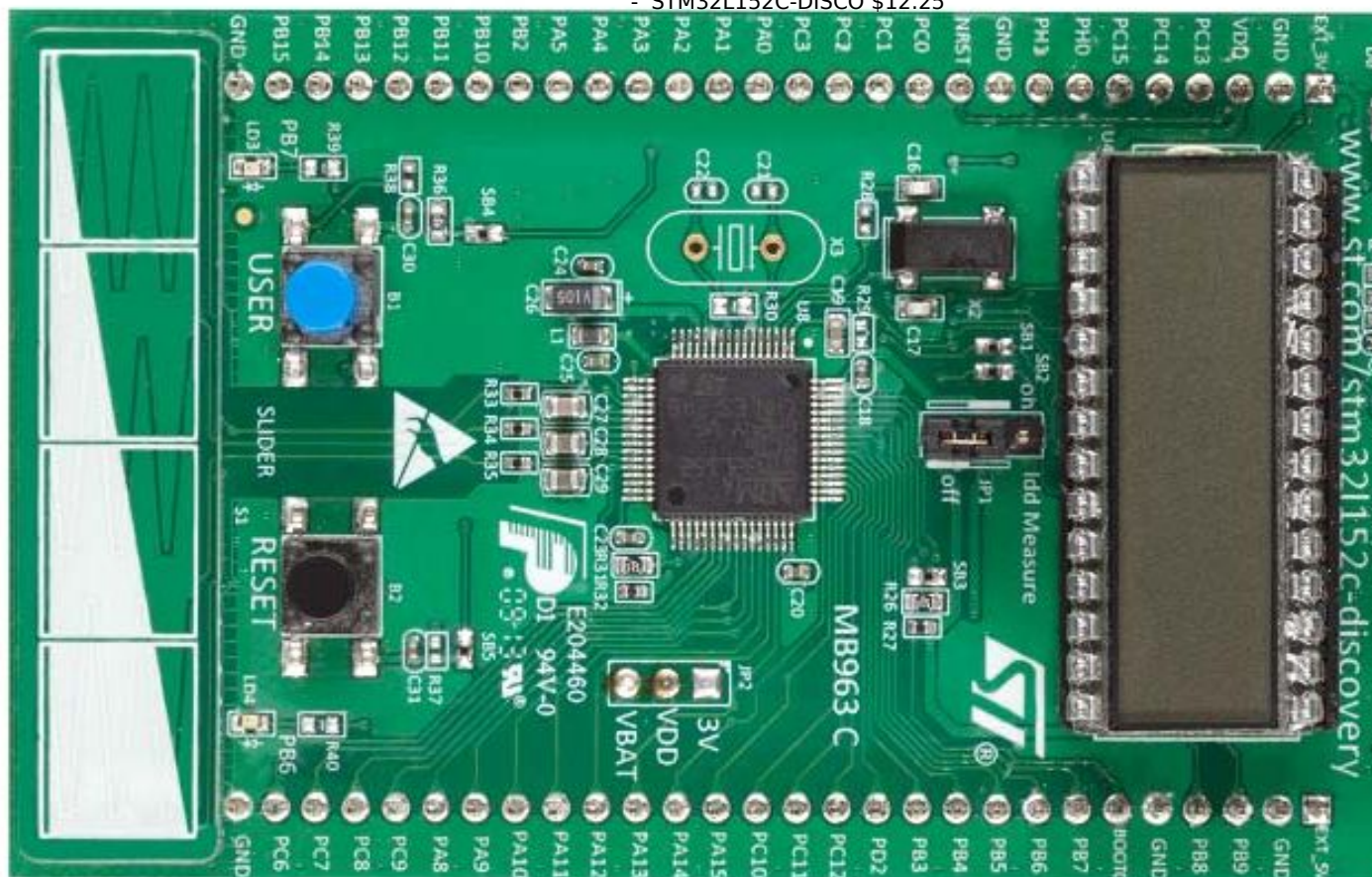
32L152CDISCOVERY

- STM32L152RCT6 - 256 KB FLASH, 32 KB SRAM, 8 KB EEPROM LQFP64
- ST-LINK/V2
- user: 2x LED, 1x button
- LCD (6 x 14-segment + bar, DIP28 package, socketed)
- 1x linear touch sensor/ 4x touchkeys

- IDD current measurement (using capacitor "memory"/opamp)

- 32kHz Xtal

- STM32L152C-DISCO \$12.25

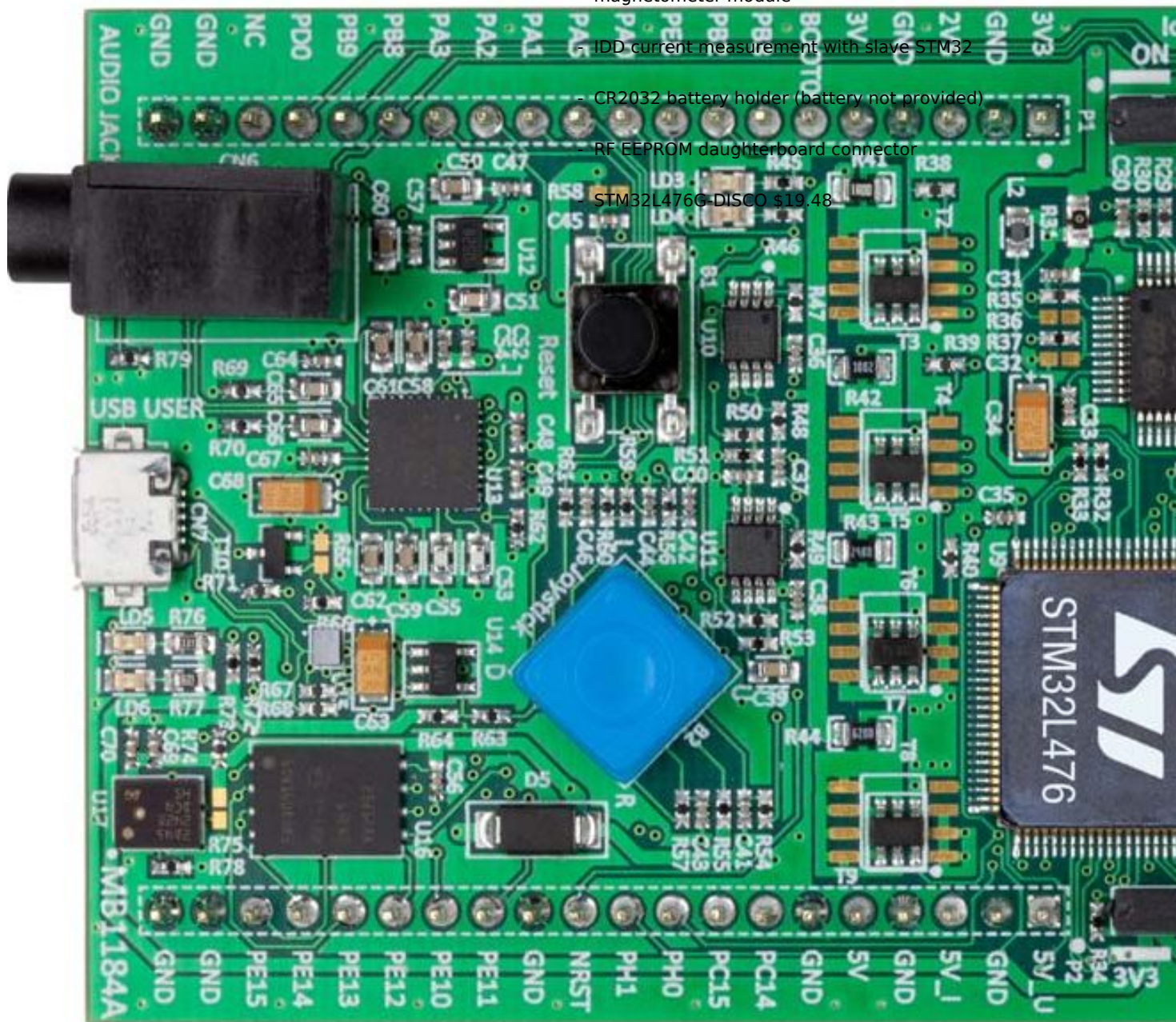


32L476GDISCOVERY

(Jan.2021) Obsolete

- STM32**L476**VG6 - 1 MB FLASH, 128 KB SRAM, LQFP100
- ST-LINK/V2-1 (mbed-enabled, debug+VCP+MSD)
- user: 2x LED, joystick
- LCD (6 x 14-segment + bar, DIP28 package, socketed)
- 128-Mbit Quad-SPI NOR Flash
- USB OTG FS with micro-AB connector
- CS43L22, audio DAC with integrated class D speaker driver (I2S through SAI)
- MP34DT01 MEMS digital microphone

- L3GD20 ST MEMS three-axis digital output gyroscope
- LSM303C ST MEMS 3D accelerometer and 3D magnetometer module
- IDD current measurement with slave STM32
- CR2032 battery holder (battery not provided)
- RF EEPROM daughterboard connector
- STM32L476G-DISCO \$19.48



[32L496GDISCOVERY](#)

- STM32L496AGI6 - 1 MB FLASH, 320 KB SRAM, UFBGA169
- ST-LINK/V2-1 (mbed-enabled, debug + VCP + MSD)
- user: 8x LED, joystick
- 1.54" 240x240 pixel TFT color LCD with parallel interface
- 8-Mbit PSRAM
- 64-Mbit Quad-SPI NOR Flash



- USB OTG FS with micro-AB connector
- MicroSD™ card connector (card included)
- Two on-board ST-MEMS microphones
- SA1 audio CODEC (stereo headset jack including analog microphone input)
- Compatible with Arduino™ Uno revision 3 connectors
- STMod+ and PMOD connectors
- Camera 8-bit connector
- IDD measurement

- STM32L496G-DISCO \$70 \$73.50



32L4R9IDISCOVERY

- STM32L4R9AI6 - 2 MB FLASH, 640 KB SRAM, UFBGA169
- ST-LINK/V2-1 (mbed-enabled, debug + VCP + MSD)
- user: 2x LED, reset button, 4-way joystick
- 1.2" 390x390 pixel AMOLED round display, MIPI ® DSI interface and capacitive touch panel
- 16-Mbit asynchronous PSRAM
- 512-Mbit Octo-SPI Flash
- USB OTG FS with micro-AB connector
- MicroSD™ card connector
- 2x MP34DT01TR ST MEMS digital microphone
- audio codec, 3.5mm jack with stereo output and mic input

- Compatible with Arduino™ Uno revision 3 connectors

- 8-bit camera connector

- STMod+ and PMOD and EXT_I2C connectors

STM32L4R9I-DISCO \$87.22



STM32F3DISCOVERY

- STM32F303VCT6 - 256 KB FLASH, 48 KB SRAM, LQFP100

- ST-LINK/V2 PCB version A or B, ST-LINK/V2-B (+ VCP + MSD) for PCB version C and newer

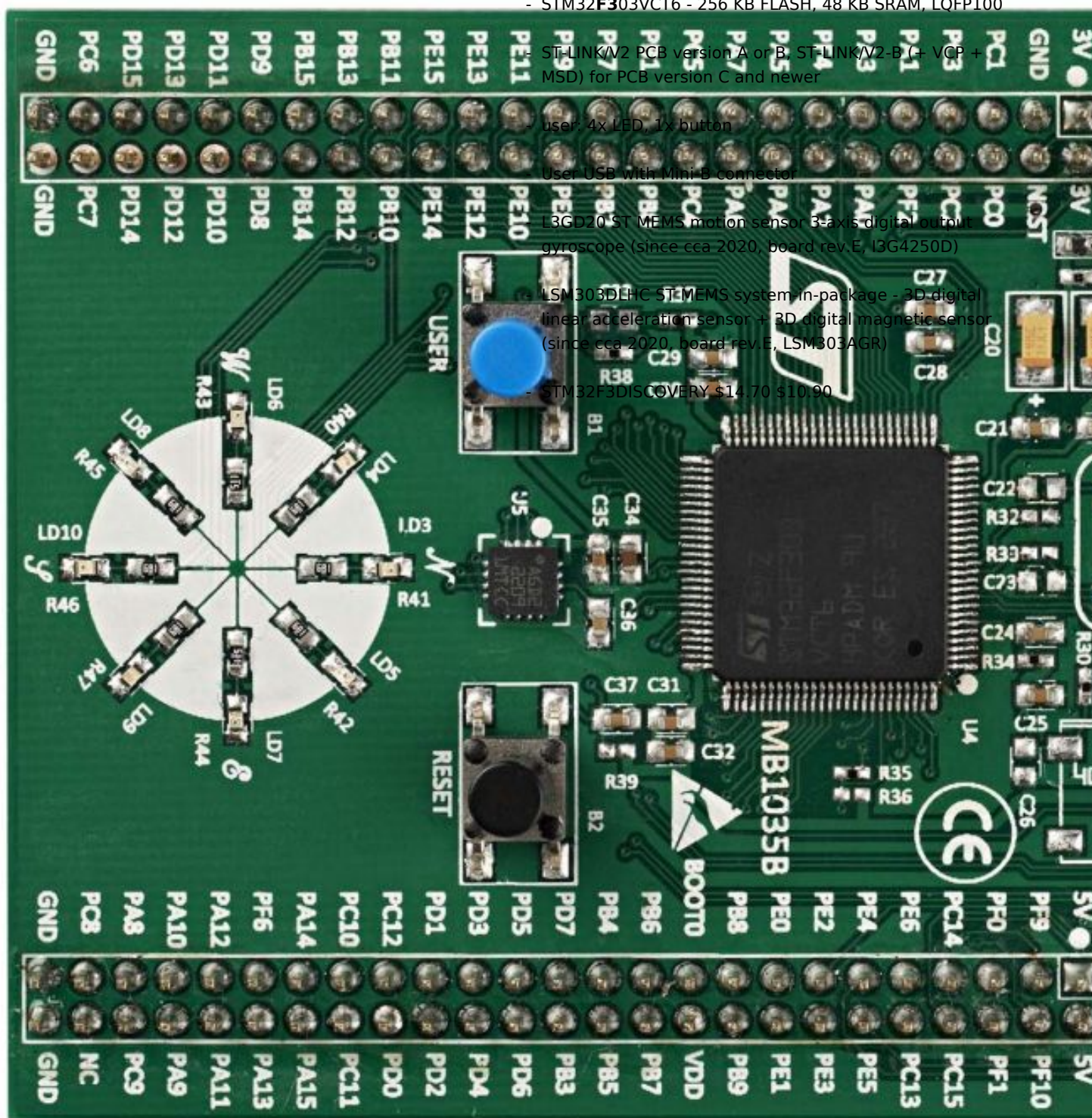
- user: 4x LED, 1x button

- User USB with Mini-B connector

- L3GD20 ST MEMS motion sensor 3-axis digital output gyroscope (since cca 2020, board rev.E, L3G4250D)

- LSM303DLHC ST MEMS system-in-package - 3D digital linear acceleration sensor + 3D digital magnetic sensor (since cca 2020, board rev.E, LSM303AGR)

- STM32F3DISCOVERY \$14.70 \$10.90

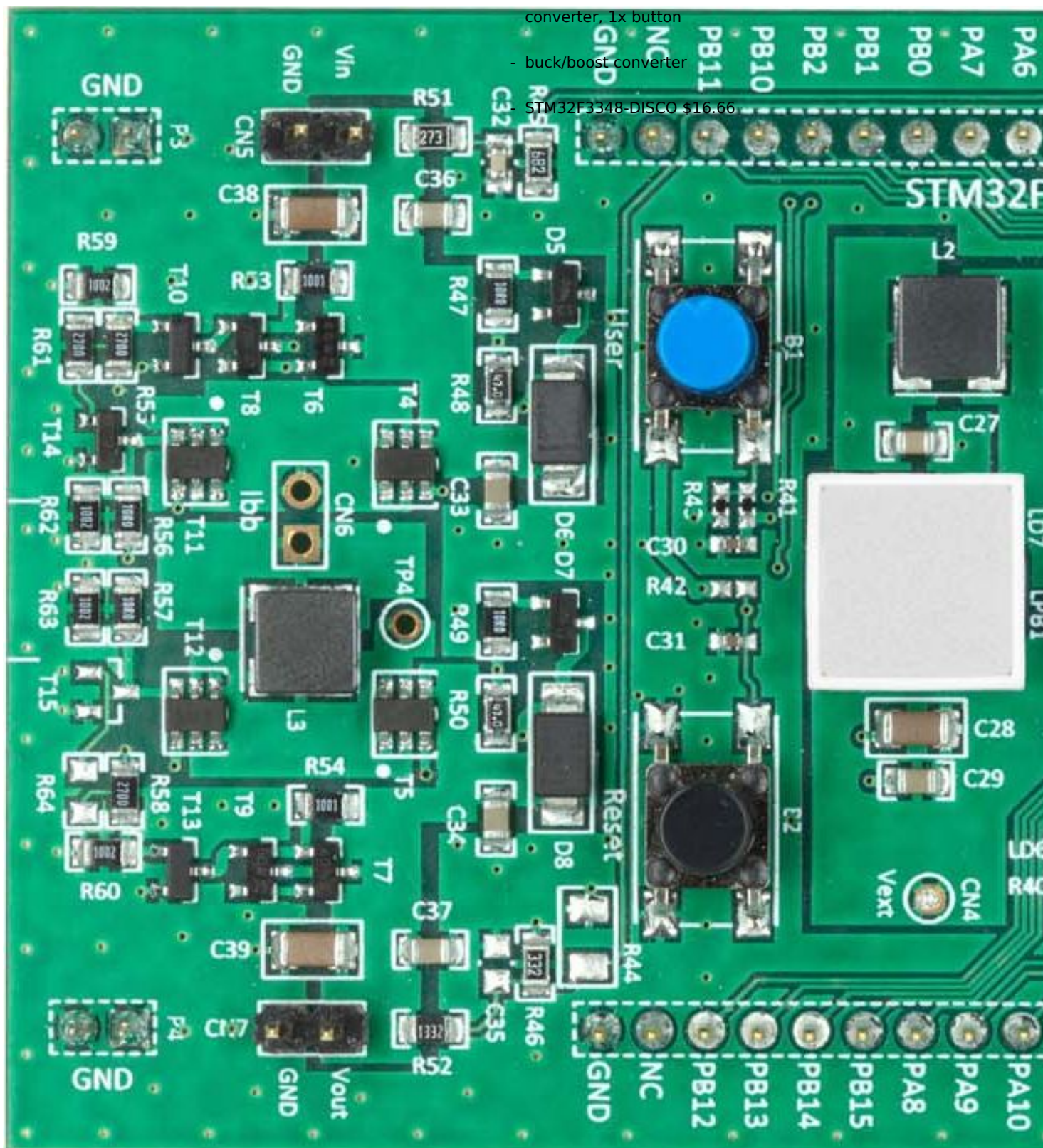


32F3348DISCOVERY

- STM32F334C8T6 - 64 KB FLASH, 16 KB SRAM, LQFP48

- ST-LINK/V2-1 (mbed-enabled, debug + VCP + MSD)

- user: 4x LED + high brightness LED dimming with buck



converter, 1x button

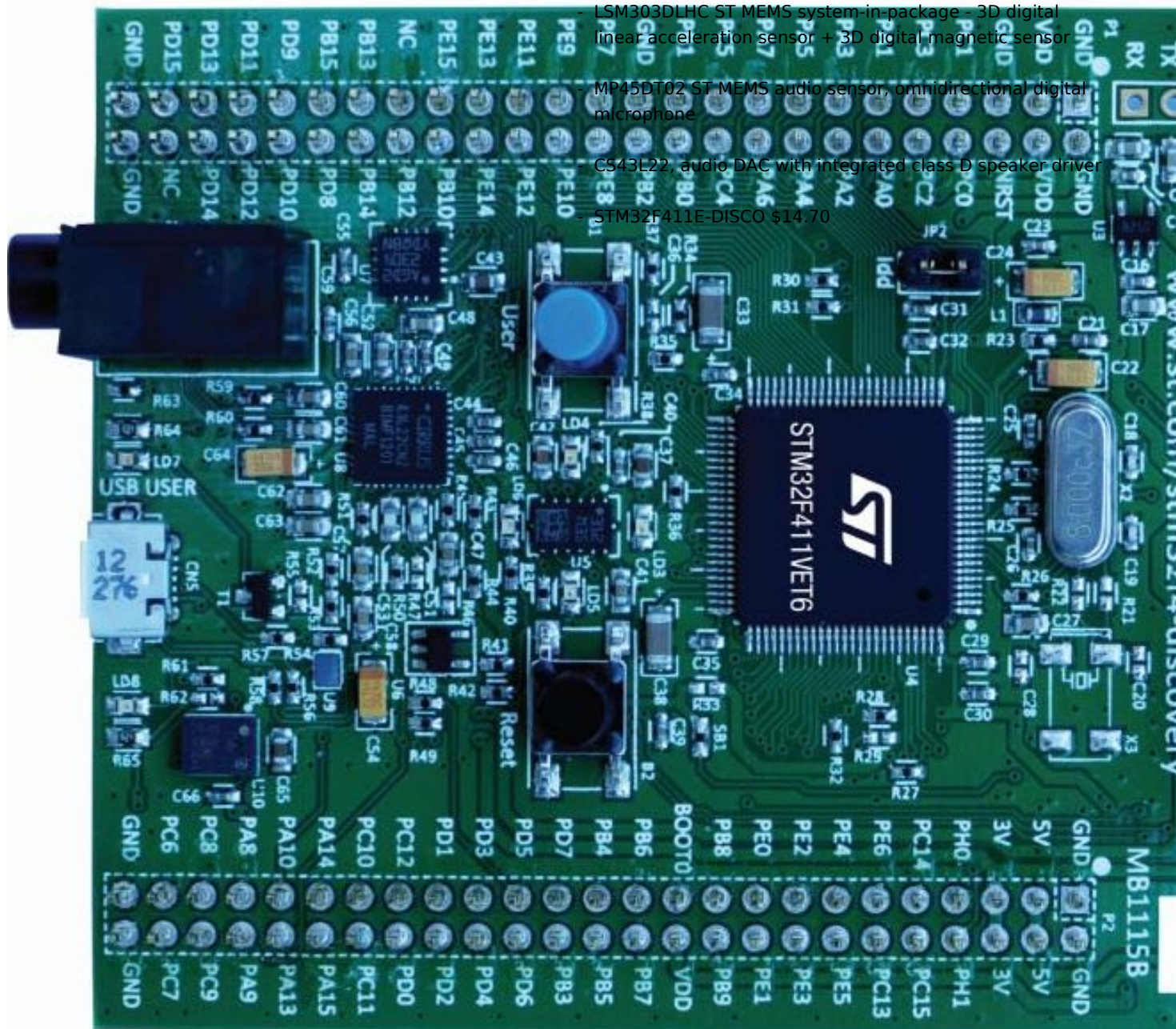
- buck/boost converter

- STM32F3348-DISCO \$16.66

32F411EDISCOVERY

- STM32F411VET6 - 512 KB FLASH, 128 KB SRAM, LQFP100
- ST-LINK/V2
- user: 4x LED, 1x button
- USB OTG FS with micro-AB connector

- L3GD20 ST MEMS motion sensor 3-axis digital output gyroscope
- LSM303DLHC ST MEMS system-in-package - 3D digital linear acceleration sensor + 3D digital magnetic sensor
- MP45DT02 ST MEMS audio sensor, omnidirectional digital microphone
- C543L22, audio DAC with integrated class D speaker driver
- STM32F411E-DISCO \$14.70

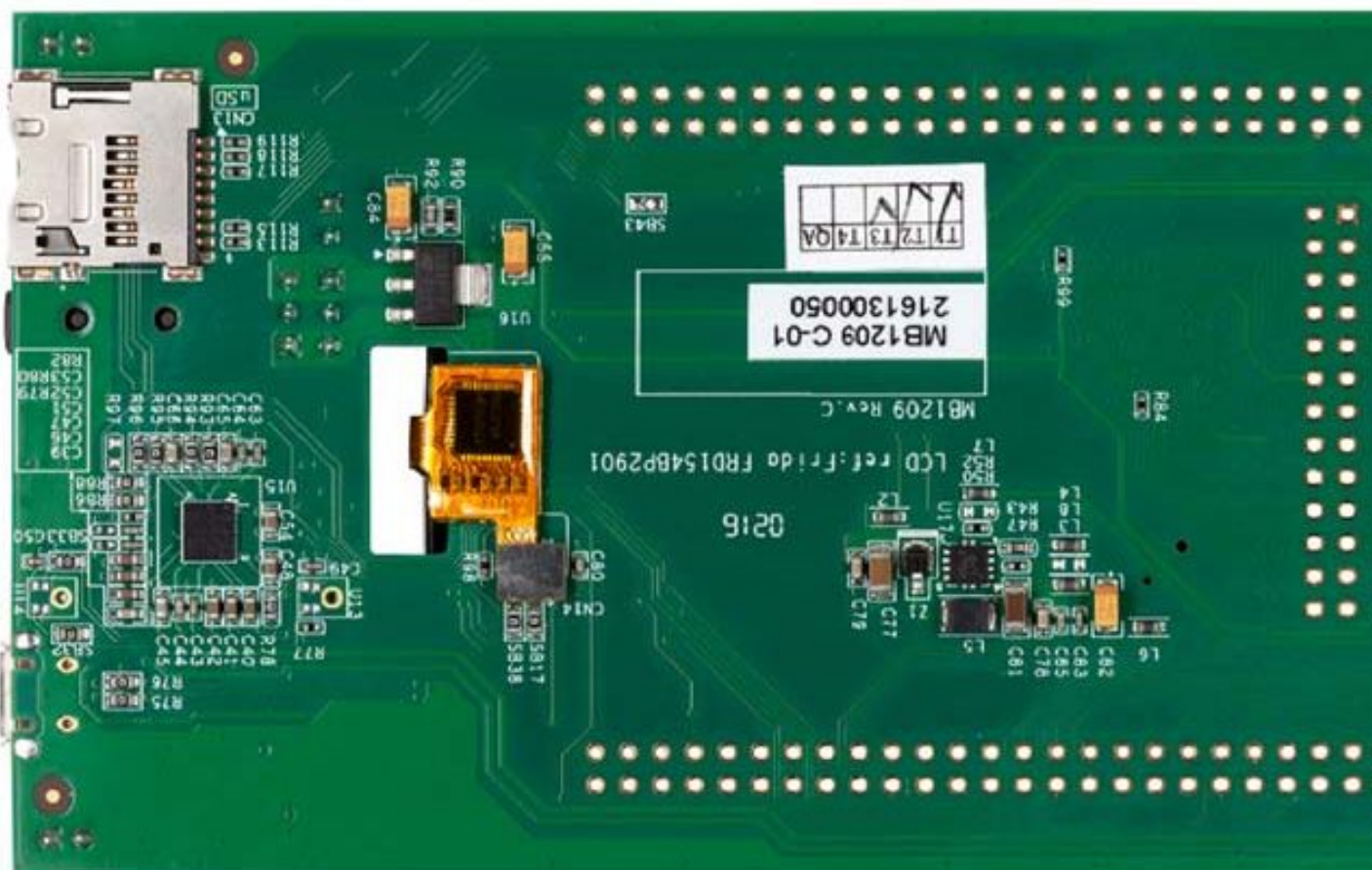


32F412GDISCOVERY

- STM32F412ZGT6 - 1 MB FLASH, 256 KB SRAM, LQFP144
- ST-LINK/V2-1 (mbed-enabled, debug + VCP + MSD)
- user: 4x LED, joystick
- 1.54 inch 240x240 pixel TFT color LCD with parallel interface and capacitive touchscreen
- 128-Mbit Quad-SPI NOR Flash



- USB OTG FS with micro-AB connector
- MicroSD™ card connector
- 2x MP34DT01TR ST MEMS digital microphone
- WM8994, I2S audio CODEC with microphone input and integrated class AB or D speaker driver
- Compatible with Arduino Uno revision 3 connectors
- RF EEPROM daughterboard connector
- STM32F412G-DISCO \$29.50 \$25



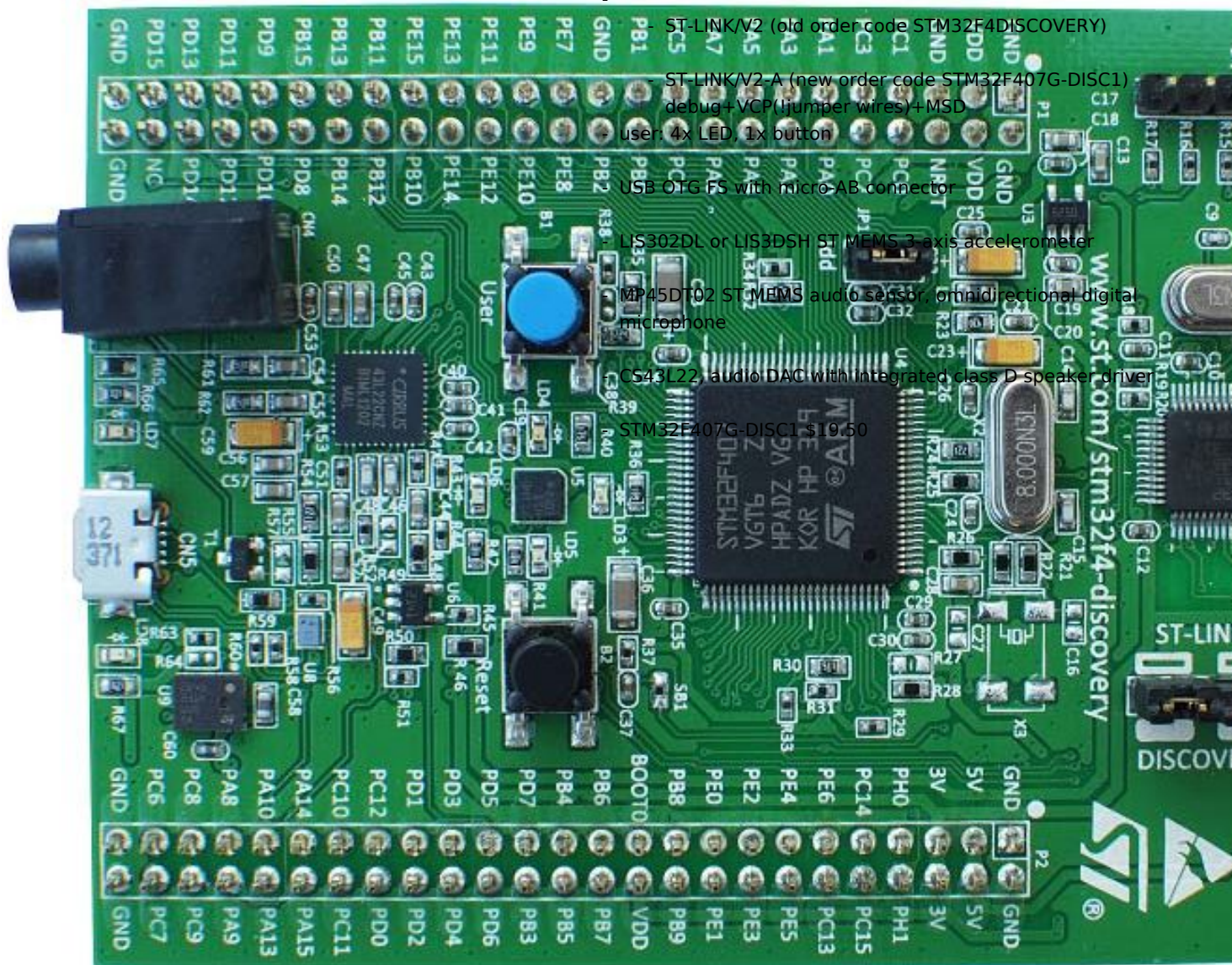
32F413HDISCOVERY

- STM32F413ZHT6 - 1.5 MB FLASH, 320 KB SRAM, LQFP144
- ST-LINK/V2-1 (mbed-enabled, debug + VCP + MSD)
- user: 2x LED, 1xbutton
- 240x240 pixel TFT color LCD with parallel interface and touch-panel connector
- 8-Mbit PSRAM; 512K word x 16bits
- 128-Mbit Quad-SPI NOR Flash
- USB OTG FS with micro-AB connector
- MicroSD™ card connector
- Two on-board ST-MEMS microphones; Connector extension for up to 5-MEMS microphones
- I2S audio CODEC
- Compatible with Arduino™ Uno revision 3 connectors
- Integrated Wi-Fi module 802.11 b/g/n
- STM32F413H-DISCO \$70



STM32F4DISCOVERY

- STM32F407VGT6 - 1 MB FLASH, 192 KB SRAM, LQFP100



- ST-LINK/V2 (old order code STM32F4DISCOVERY)

- ST-LINK/V2-A (new order code STM32F407G-DISC1)
debug+VCP(l jumper wires)+MSD
user: 4x LED, 1x button

- USB OTG FS with micro-AB connector

- LIS302DL or LIS3DSH ST MEMS 3-axis accelerometer

- MP45DT02 ST MEMS audio sensor, omnidirectional digital microphone

- CS43L22, audio DAC with integrated class D speaker driver

- STM32F407G-DISC1 \$19.50

32F429IDISCOVERY

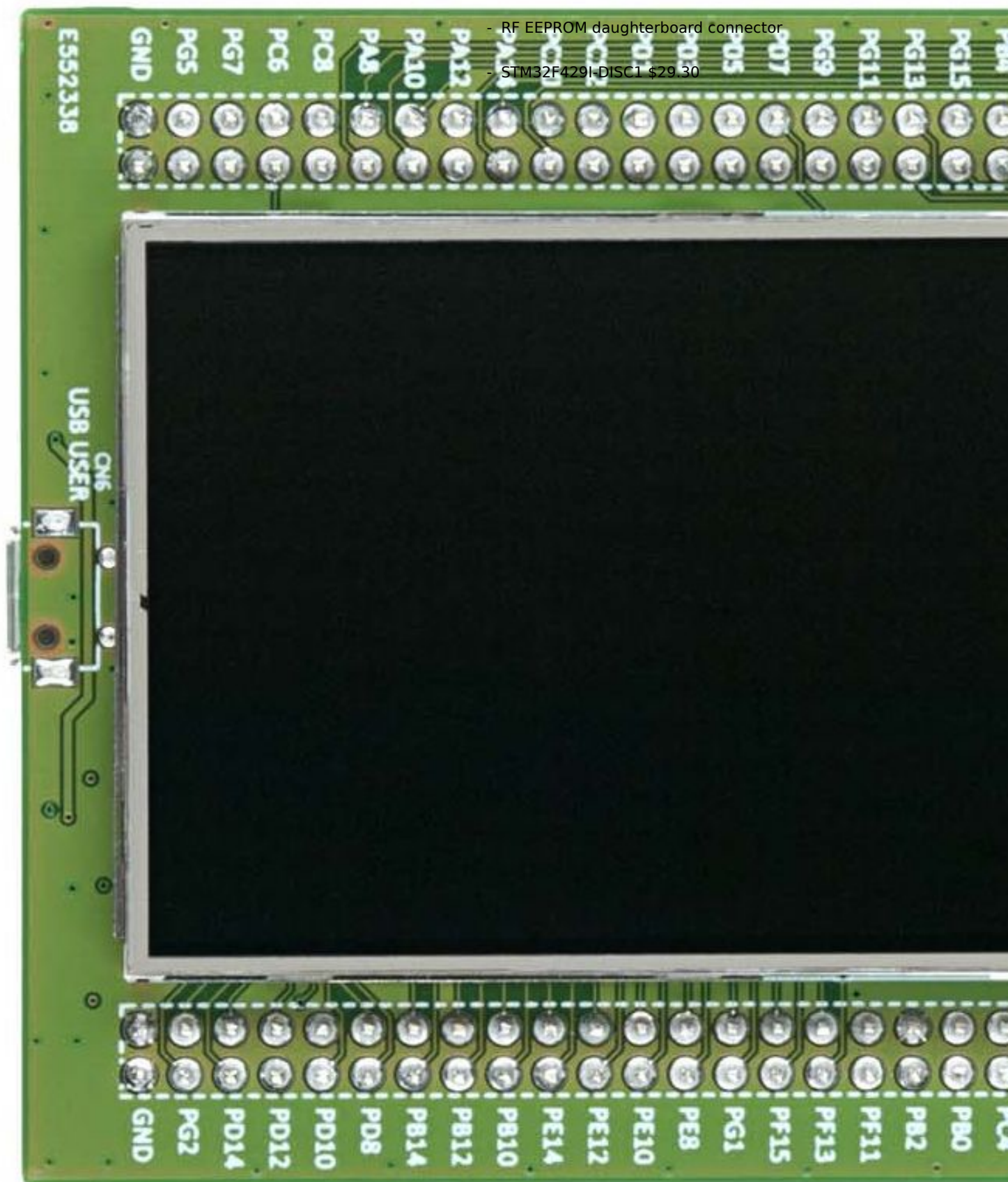
- STM32F429ZIT6 - 2 MB FLASH, 256 KB SRAM, LQFP144

- ST-LINK/V2 (old order code STM32F429I-DISCO)

- ST-LINK/V2-B (new order code STM32F429I-DISC1)
debug+VCP+MSD

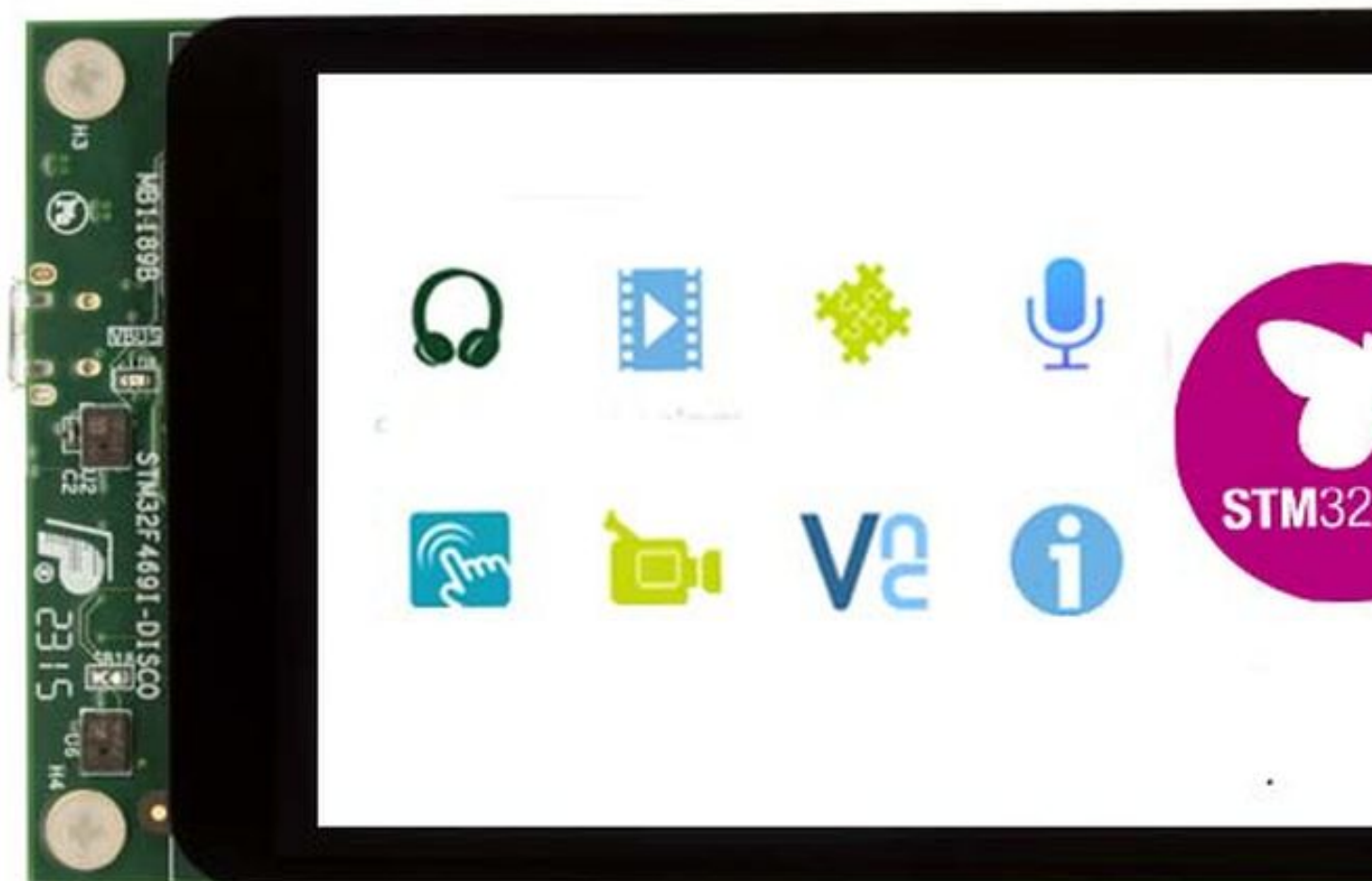
- user: 2x LED, 1x button

- 2.4" QVGA TFT LCD
- 64-Mbit SDRAM
- USB OTG FS with micro-AB connector
- L3GD20, ST-MEMS motion sensor 3-axis digital output gyroscope (I3G4250D in revE/2020, see discussion)
- RF EEPROM daughterboard connector
- STM32F429I-DISC1 \$29.30



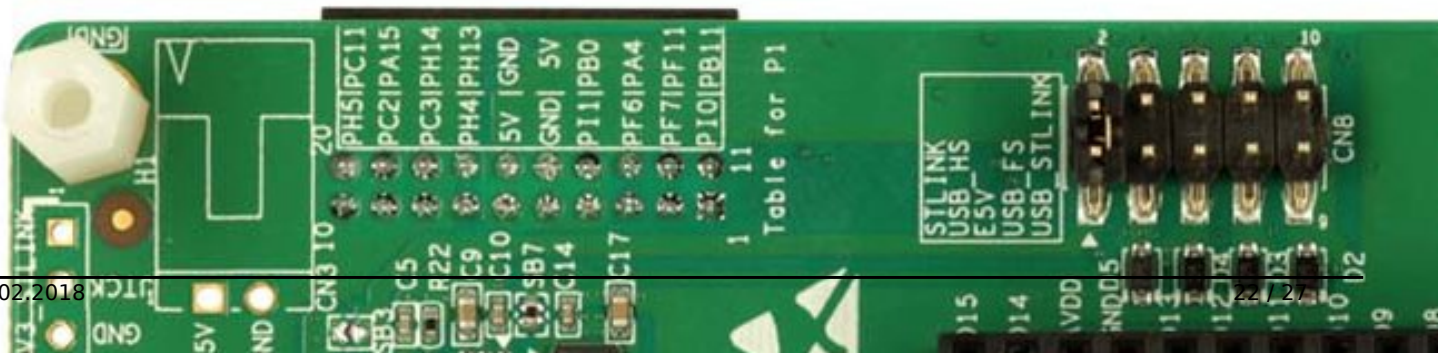
32F469IDISCOVERY

- STM32F469NIH6 - 2 MB FLASH, 324 KB SRAM, BGA216
- ST-LINK/V2-1 (mbed-enabled, debug+VCP+MSD)
- user: 4x LED, 1x button
- 4" 800x480 TFT with MIPI DSI interface and capacitive touch screen
- 4Mx32bit SDRAM
- 128-Mbit Quad-SPI NOR Flash
- MicroSD card connector
- USB OTG FS with micro-AB connector
- CS43L22, audio DAC with integrated class D speaker driver (I2S through SAI)
- 3x MP34DT01TR MEMS digital microphones
- RF EEPROM daughterboard connector
- Arduino [™] UNO V3 connector
- STM32F469I-DISCO \$60.03



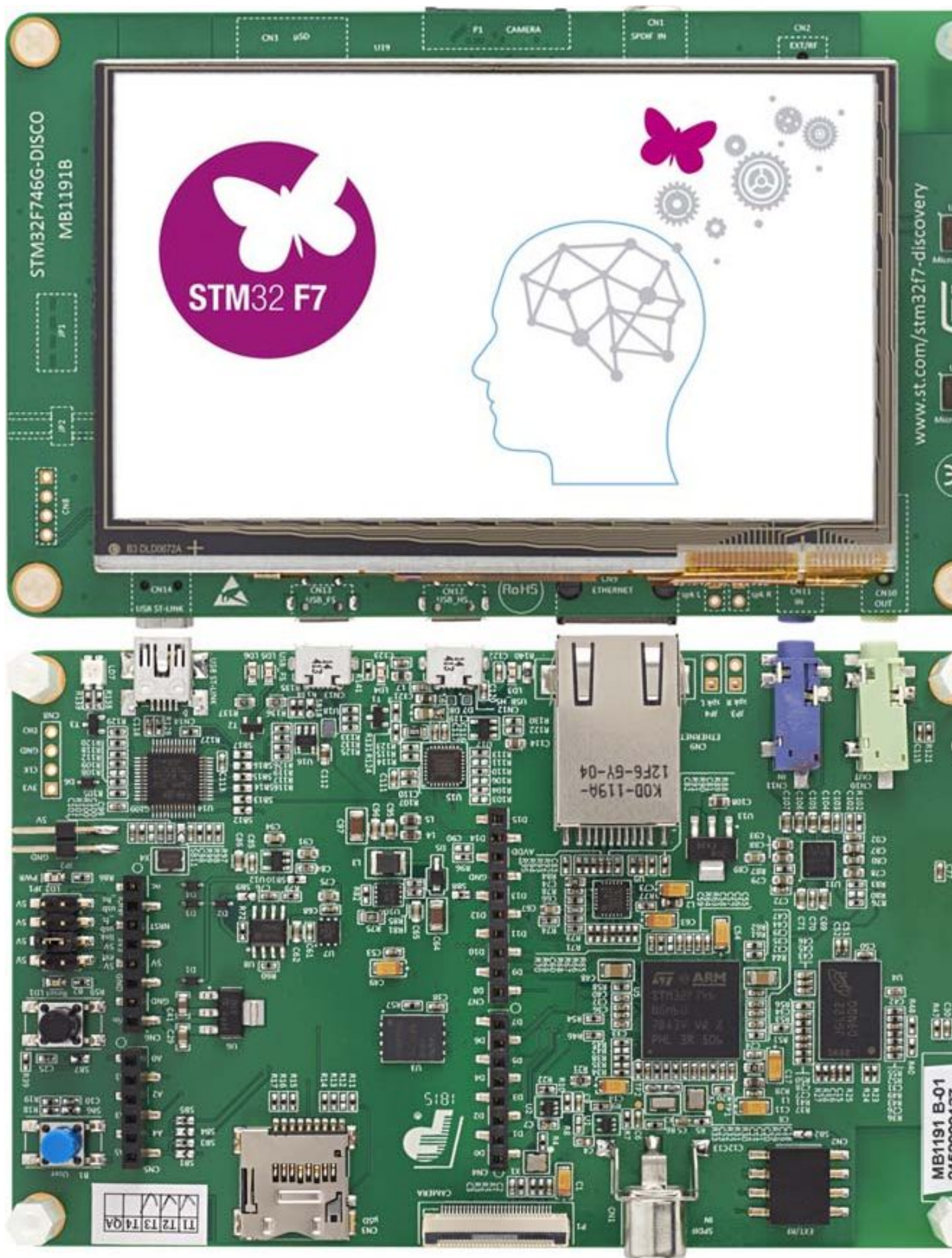
32F723EDISCOVERY

- STM32F723IEK6 - 512 kB FLASH, 176+16 KB SRAM, BGA176
- ST-LINK/V2-1 (mbed-enabled, debug + VCP + MSD)
- user: 3x LED, 1xbutton
- 240x240 pixel TFT LCD with touch-panel
- 8-Mbit PSRAM; 512K word x 16bits
- 512-Mbit Quad-SPI NOR Flash
- USB OTG HS with micro-AB connector
- USB OTG FS with micro-AB connector
- 4 ST-MEMS microphones
- SAI audio CODEC
- 3.5mm jack for stereo audio line in, headphones; stereo speaker output
- Compatible with Arduino™ Uno revision 3 connectors
- ESP-01 Wi-Fi module connector
- Fanout board (included) compatible with MikroElektronika Click boards, ESP-01 and Seeed Studio™ Grove modules
- STMod+ and PMOD connectors
- STM32F723E-DISCO \$18.62 \$39



32F746GDISCOVERY

- STM32**F7**46NGH6 - 1 MB FLASH, 340 KB SRAM, BGA216
- ST-LINK/V2-1 (mbed-enabled, debug+VCP+MSD)
- user: 1x LED, 1x button
- 4.3-inch 480x272 color LCD-TFT with capacitive touch screen
- 128-Mbit SDRAM (64-MBit accessible)
- 128-Mbit Quad-SPI NOR Flash
- 10/100-Mbit Ethernet
- MicroSD card connector
- USB OTG FS + USB OTG HS, both with micro-AB connector
- WM8994 CODEC, I2S through SAI (line in, line out, stereo external speakers)
- 2xMP34DT01TR MEMS digital microphones (connected to CODEC)
- SPDIF RCA input connector
- camera connector, can connect module STM32F4DIS-CAM
- RF EEPROM daughterboard connector
- Arduino [™] UNO V3 connector
- STM32F746G-DISCO \$49.00



32F769I DISCOVERY

- STM32F769NIH6 - 2 MB FLASH, 512 KB SRAM, BGA216
- ST-LINK/V2-1 (mbed-enabled, debug+VCP+MSD)
- user: 3x LED, 1x button
- - 4" capacitive touch LCD display with MIPI® DSI connector - order code STM32F769I-DISCO
 - without LCD - order code STM32F769I-DISC1
- 128-Mbit SDRAM
- 512-Mbit Quad-SPI Flash memory
- 10/100-Mbit Ethernet
- Power Over Ethernet based on IEEE 802.3af (Powered Device, 48 V to 5 V, 3 W)
- MicroSD card connector
- USB OTG HS with micro-AB connector
- WM8994 CODEC, I2S through SAI (line in, line out, stereo external speakers)
- 4xMP34DT01TR MEMS digital microphones
- 2x SPDIF (1x input/1x output) RCA connector
- RF EEPROM (or WiFi - non-ST order code ESP8266-01) daughterboard connector
- Arduino™ UNO V3 connector
- - STM32F769I-DISCO \$77.42
 - STM32F769I-DISC1 \$48.02

