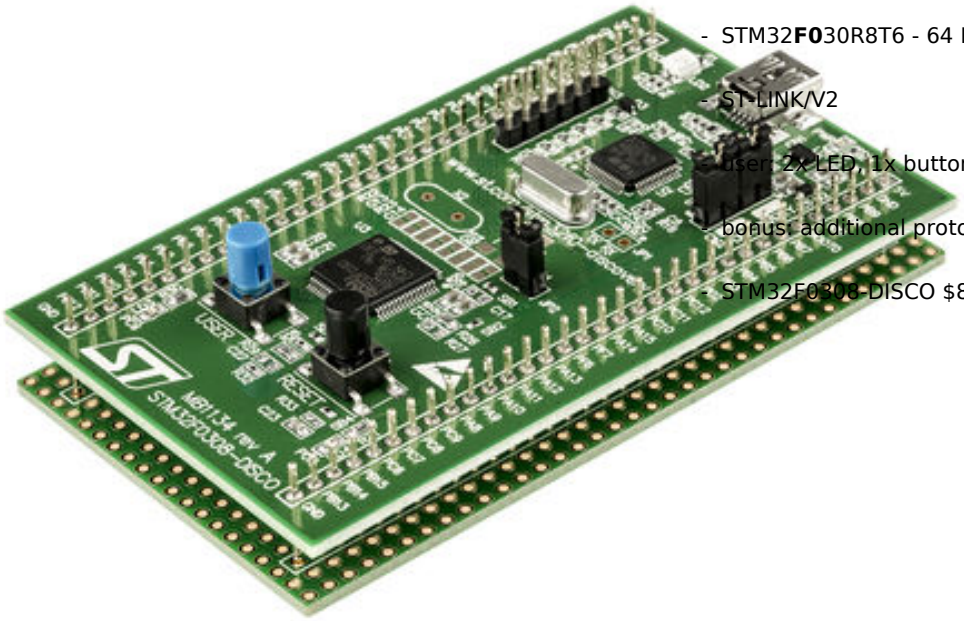
Vývojové dosky STM32 DISCOVERY predstavujú strednú vrstvu vývojových dosiek pre mcu rodiny STM32. Prinášame obrazový prehľad všetkých týchto dosiek.
Prehľad je zoradený viac-menej podľa "výkonnosti" jednotlivých rodín, ku ktorým dosky patria.

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.

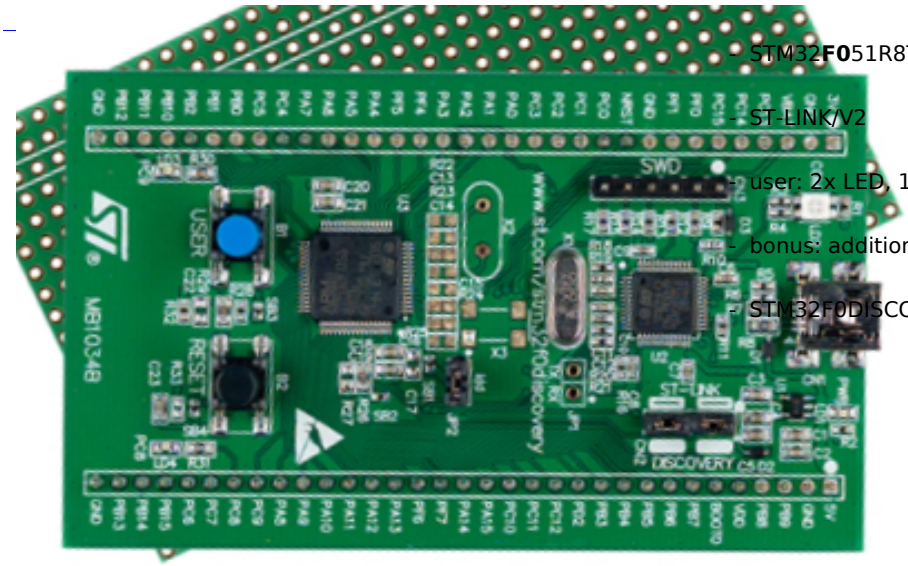
Objednávacie označenia aj ceny sú uvedené vždy podľa tabuľky na spodnej časti stránky produktu u ST v čase vytvárania tabuľky; oboje sa môže v čase meniť a označenie aj cena u distribútorov sa môžu líšiť. Niektoré dosky majú viac (obvykle evolučných) variánt, ak nie je nejaká varianta uvedená v spodnom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

32F0308DISCOVERY (Mar.2021) Obsolete



- STM32**F0**30R8T6 - 64 KB FLASH, 8 KB SRAM, LQFP64
- ST-LINK/V2
- user: 2x LED, 1x button
- bonus: additional prototyping board
- STM32F0308-DISCO $8.70

STM32F0DISCOVERY

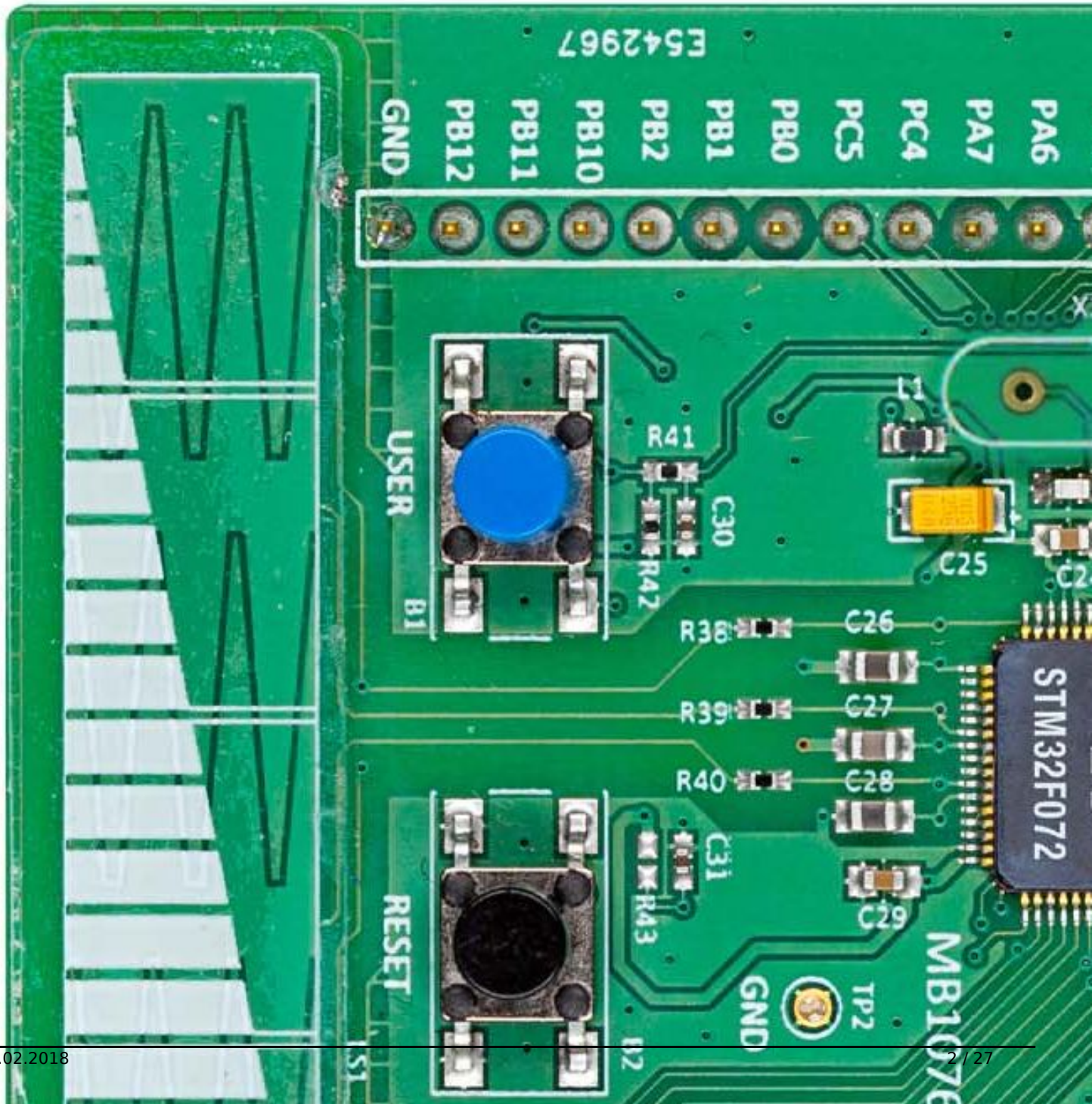


- STM32**F0**51R8T6 - 64 KB FLASH, 8 KB SRAM, LQFP64
- ST-LINK/V2
- user: 2x LED, 1x button
- bonus: additional prototyping board
- STM32F0DISCOVERY $8.70

32F072BDISCOVERY

- STM32**F0**72RBT6 - 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



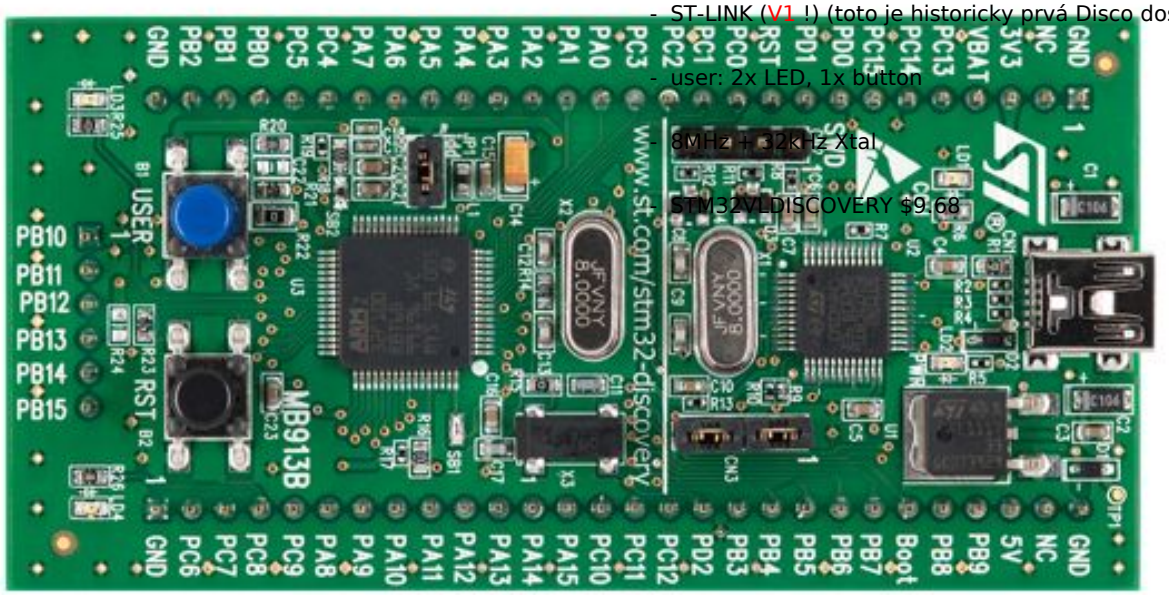
32L0538DISCOVERY

- STM32**L0**53C8T6 - 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


GND
NC
PB12
PB13
PB14
PB15
PA8
PA9
PA10
PA11
PA12
PA13
PA14
LD3
LD4
Idd
ON
User
B1
R17
C12
C13
R18
C14
R19
Reset
B2
LS1
STM32L0
STM32L05
GND
NC
PB11
PB10
PB2
PB1
PB0
PA7
PA6
PA5
PA4
PA3
PA2

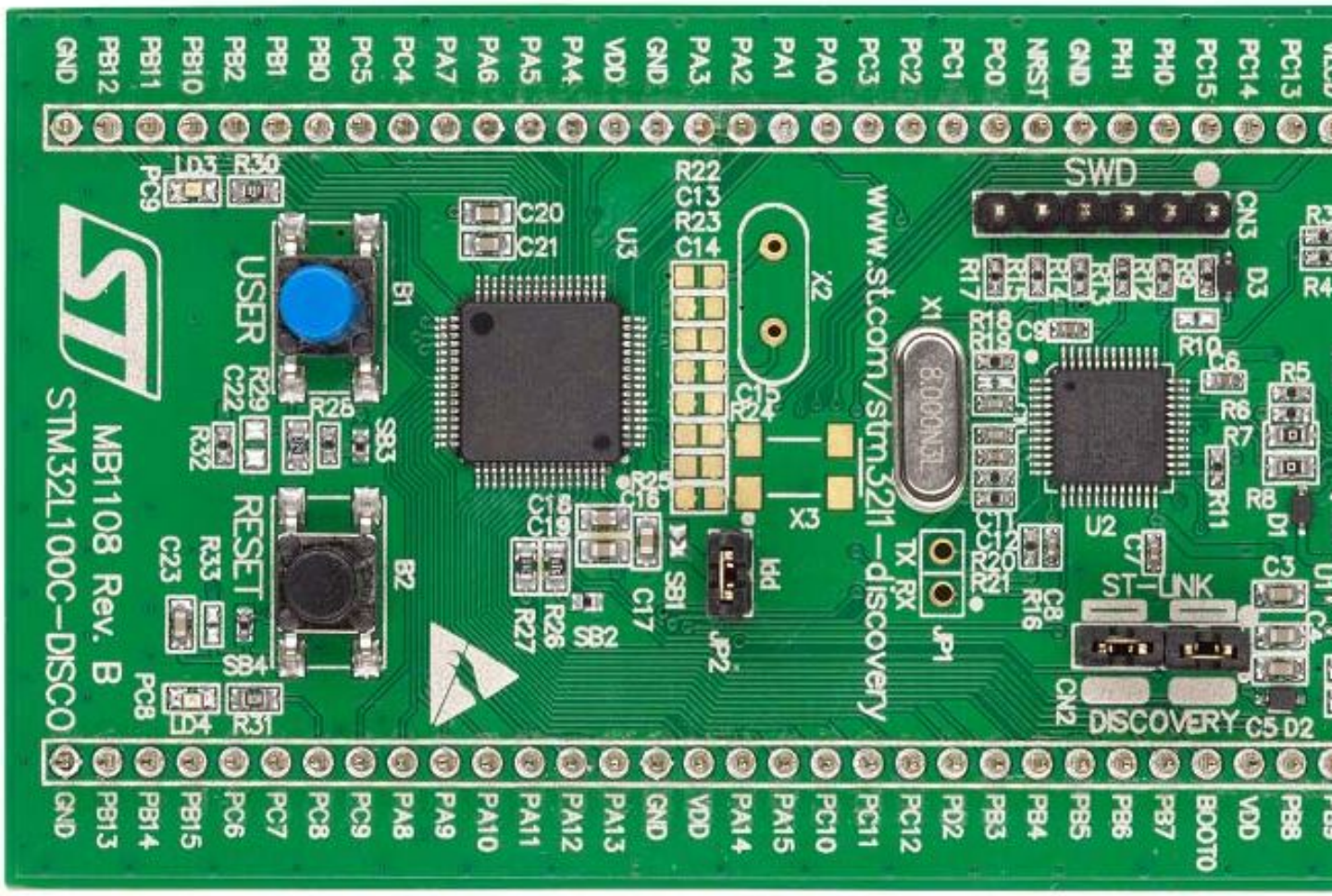
STM32VLDISCOVERY

- STM32**F1**00RBT6B - 128 KB FLASH, 8 KB SRAM, LQFP64
- ST-LINK (V1 !) (toto je historicky prvá Disco doska)
- user: 2x LED, 1x button
- 8MHz + 32kHz Xtal
- STM32VLDISCOVERY $9.68



32L100CDISCOVERY (Jan.2021) Obsolete

- STM32**L1**00RCT6 - 256 KB FLASH, 16 KB SRAM, LQFP64
- ST-LINK/V2
- user: 2x LED, 1x button
- STM32L100C-DISCO $7.72



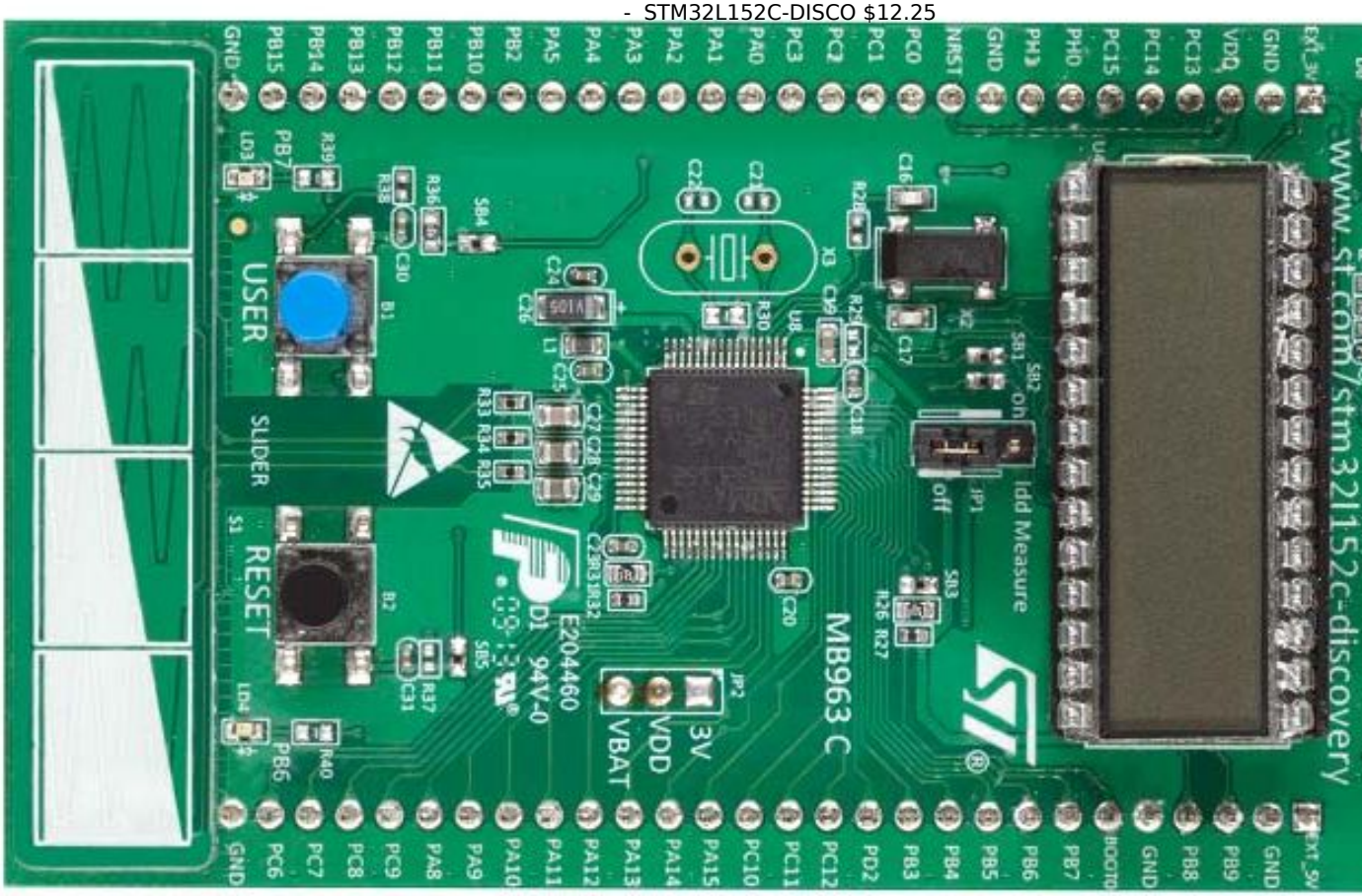
STM32L-DISCOVERY

- STM32**L1**52RBT6 - 128 KB FLASH, 16 KB SRAM,4 KB EEPROM LQFP64

32L152CDISCOVERY

- STM32**L1**52RCT6 - 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

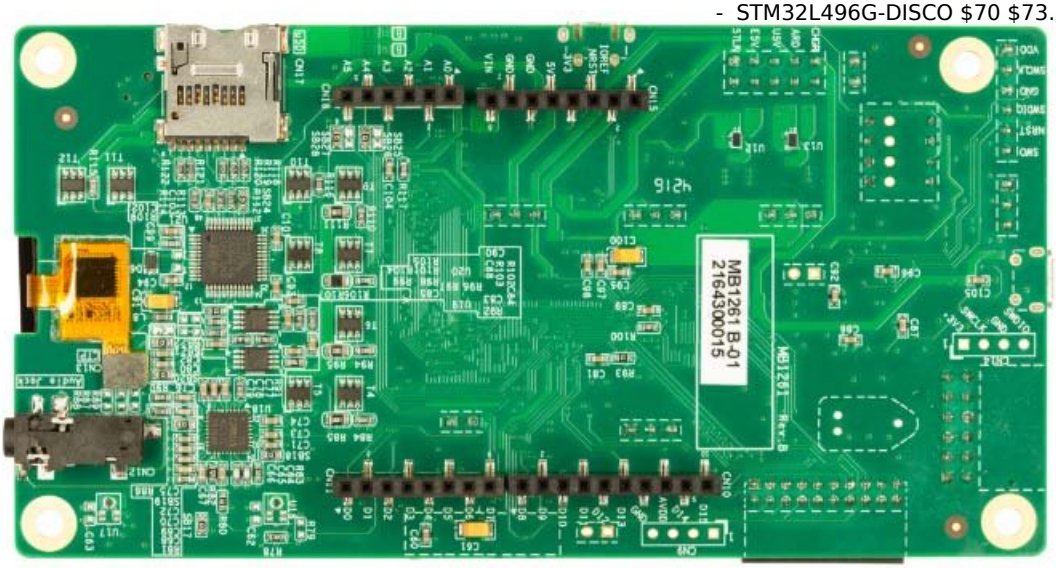
- STM32**L4**76VGT6 - 1 MB FLASH, 128 KB SRAM, LQFP100
- ST-LINK/V2-1 (mbed-enabled, debug+VCP+MSD)
- user: 2x LED, joystick
- LCD (6 x 14-segment + bar, DIP28 package, socketed)
- 128-Mbit Quad-SPI NOR Flash
- USB OTG FS with micro-AB connector
- CS43L22, audio DAC with integrated class D speaker driver (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

- STM32**L4**96AGI6 - 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
- SAI 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



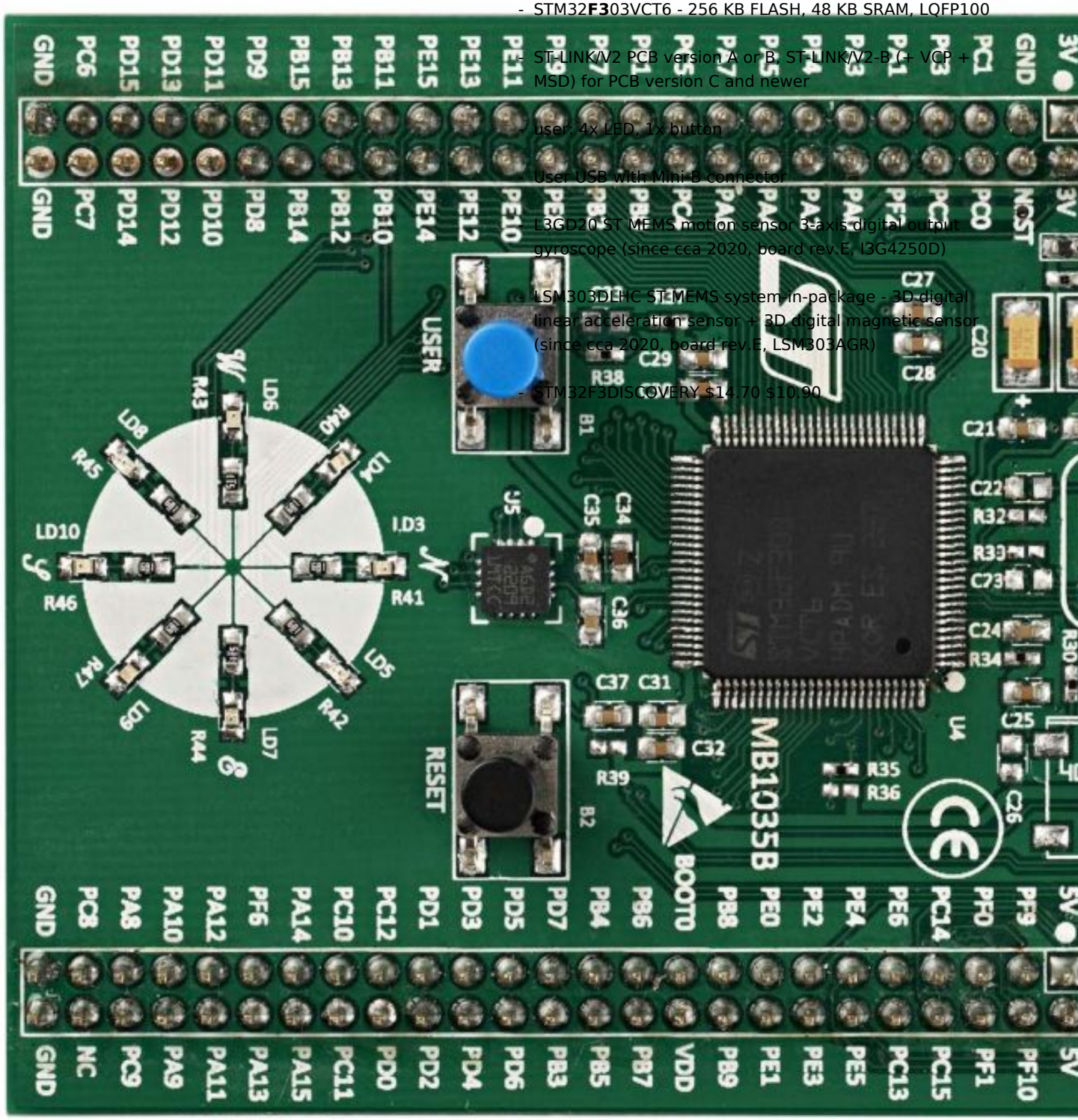
- STM32L496G-DISCO $70 $73.50

32L4R9IDISCOVERY

- STM32**L4**R9AII6 - 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



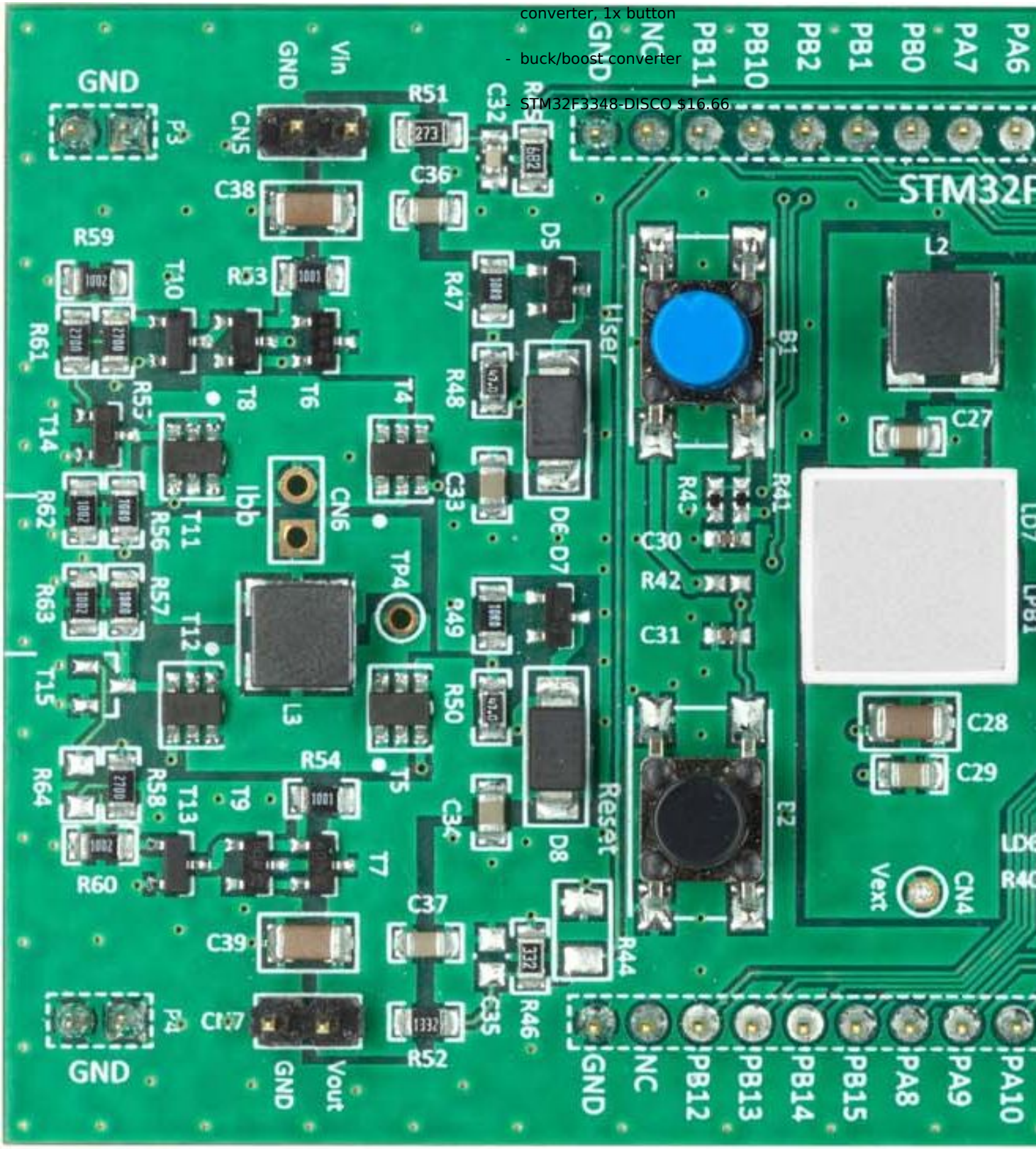
- STM32**F3**03VCT6 - 256 KB FLASH, 48 KB SRAM, LQFP100
- ST-LINK/V2 PCB version A or B, ST-LINK/V2-B (+ VCP + MSD) for PCB version C and newer
- user: 4x LED, 1x button
- User USB with Mini-B connector
- L3GD20 ST MEMS motion sensor 3-axis digital output gyroscope (since cca 2020, board rev.E, I3G4250D)
- 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

- STM32**F3**34C8T6 - 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

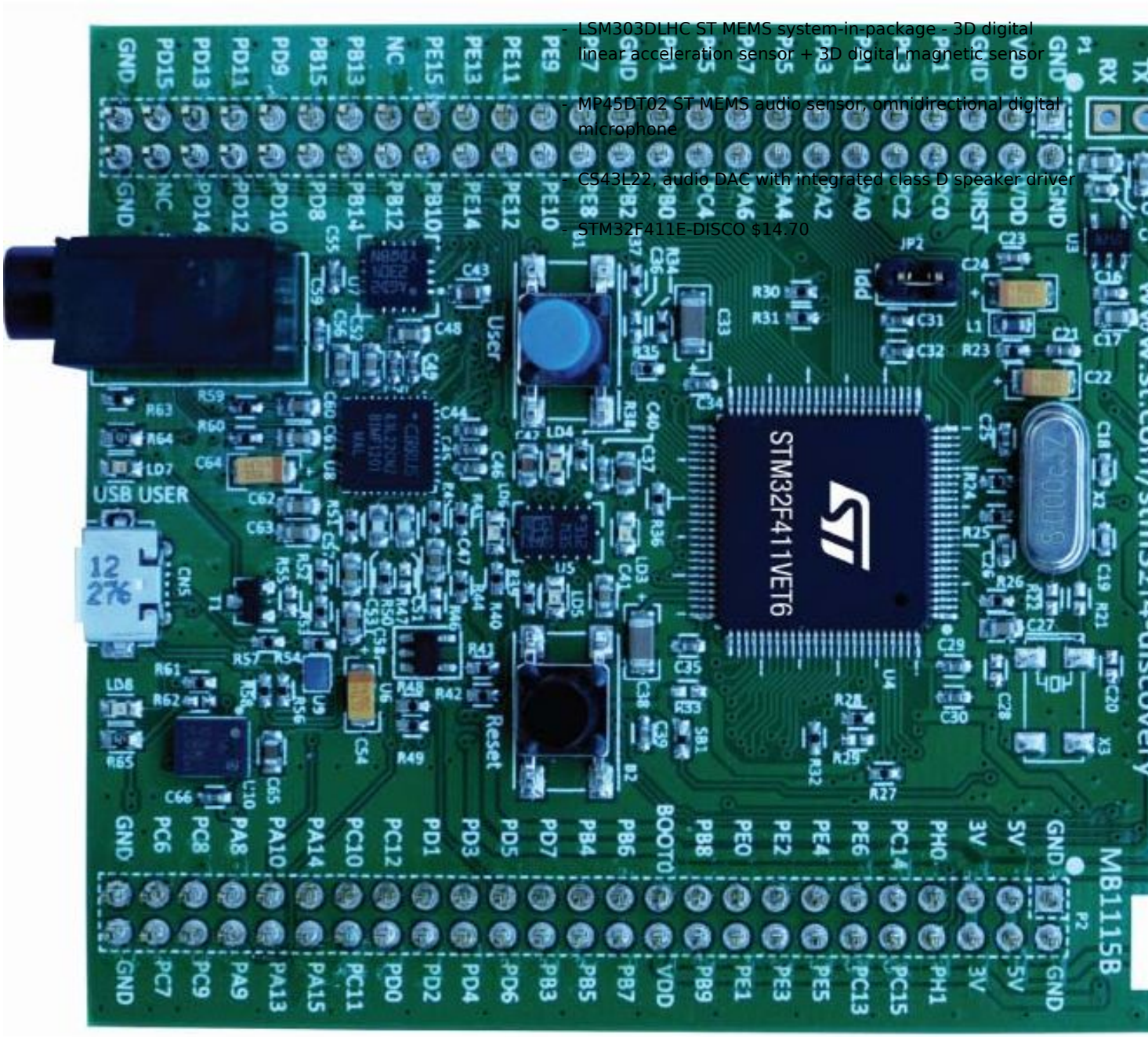
- buck/boost converter
- STM32F3348-DISCO $16.66



[32F411EDISCOVERY](#)

- STM32**F4**11VET6 - 512 KB FLASH, 128 KB SRAM, LQFP100
- ST-LINK/V2
- user: 4x LED, 1x button
- USB OTG FS with micro-AB connector

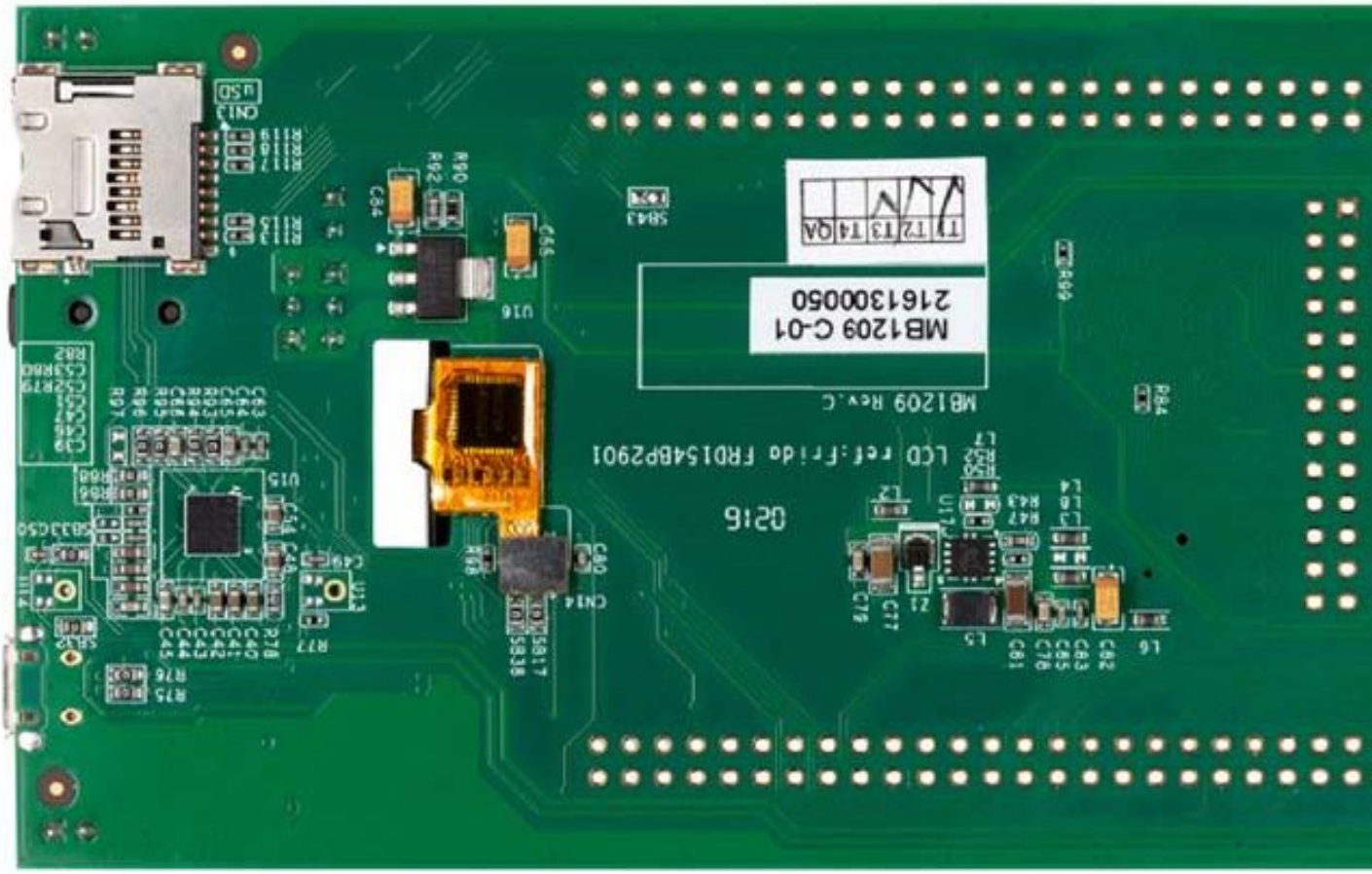
- L3GD20 ST MEMS motion sensor 3-axis digital output gyroscope
- LSM303DLHC ST MEMS system-in-package - 3D digital linear acceleration sensor + 3D digital magnetic sensor
- MP45DT02 ST MEMS audio sensor, omnidirectional digital microphone
- CS43L22, audio DAC with integrated class D speaker driver
- STM32F411E-DISCO $14.70



32F412GDISCOVERY

- STM32**F4**12ZGT6 - 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
- Compatible with Arduino™ Uno revision 3 connectors
- RF EEPROM daughterboard connector
- STM32F412G-DISCO $
$25
STM32F412G-DISCO
www.st.com/stm32



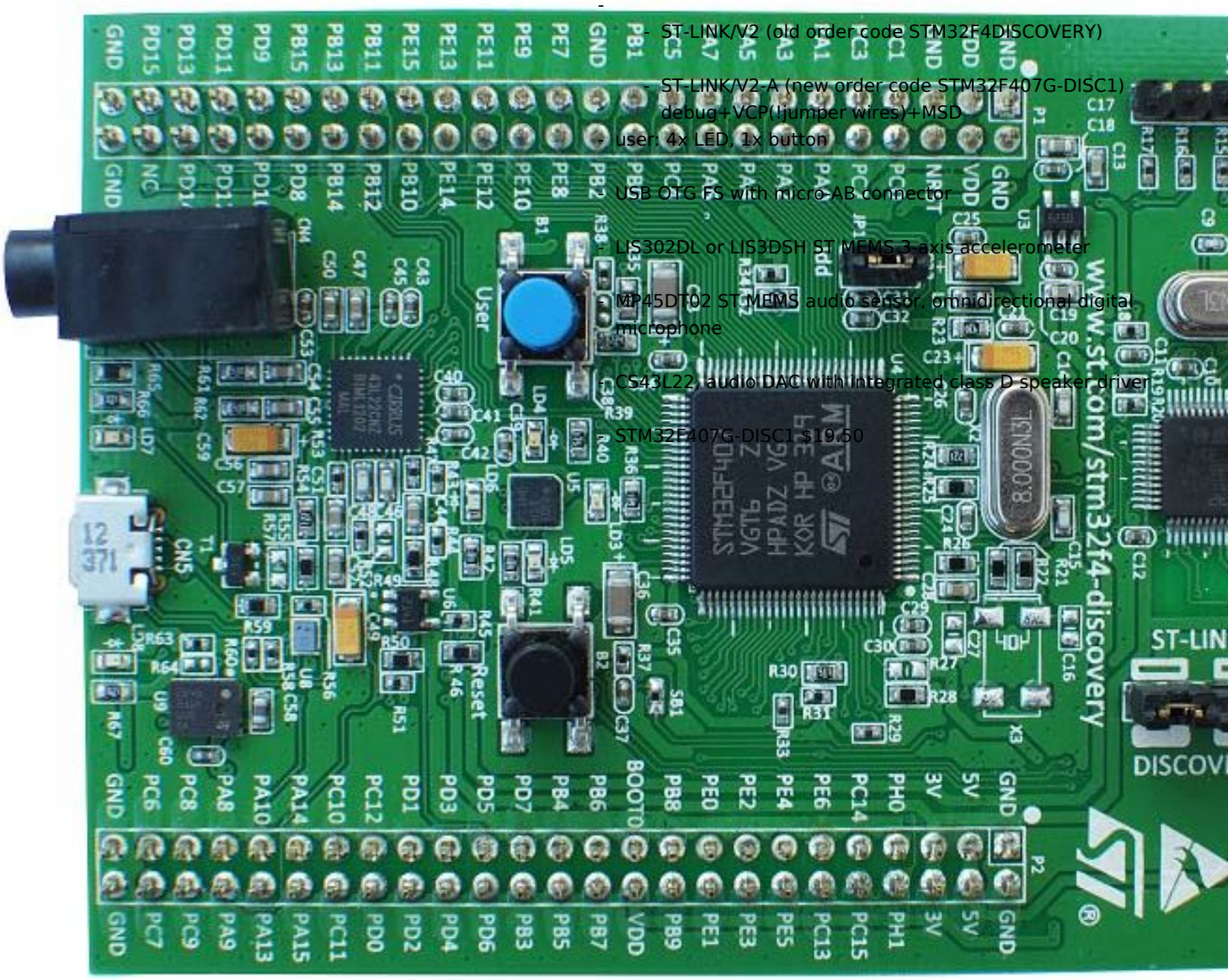
32F413HDISCOVERY

- STM32**F4**13ZHT6 - 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


DFU
ST-LINK
CN11
JTAG
USER
RESET
VCP_DEBUG
USB_OTG_FS
WiFi 802.11 b/g/n
www.st.com/stm32f4-discovery
PWR
STAUDIO JACK

STM32F4DISCOVERY

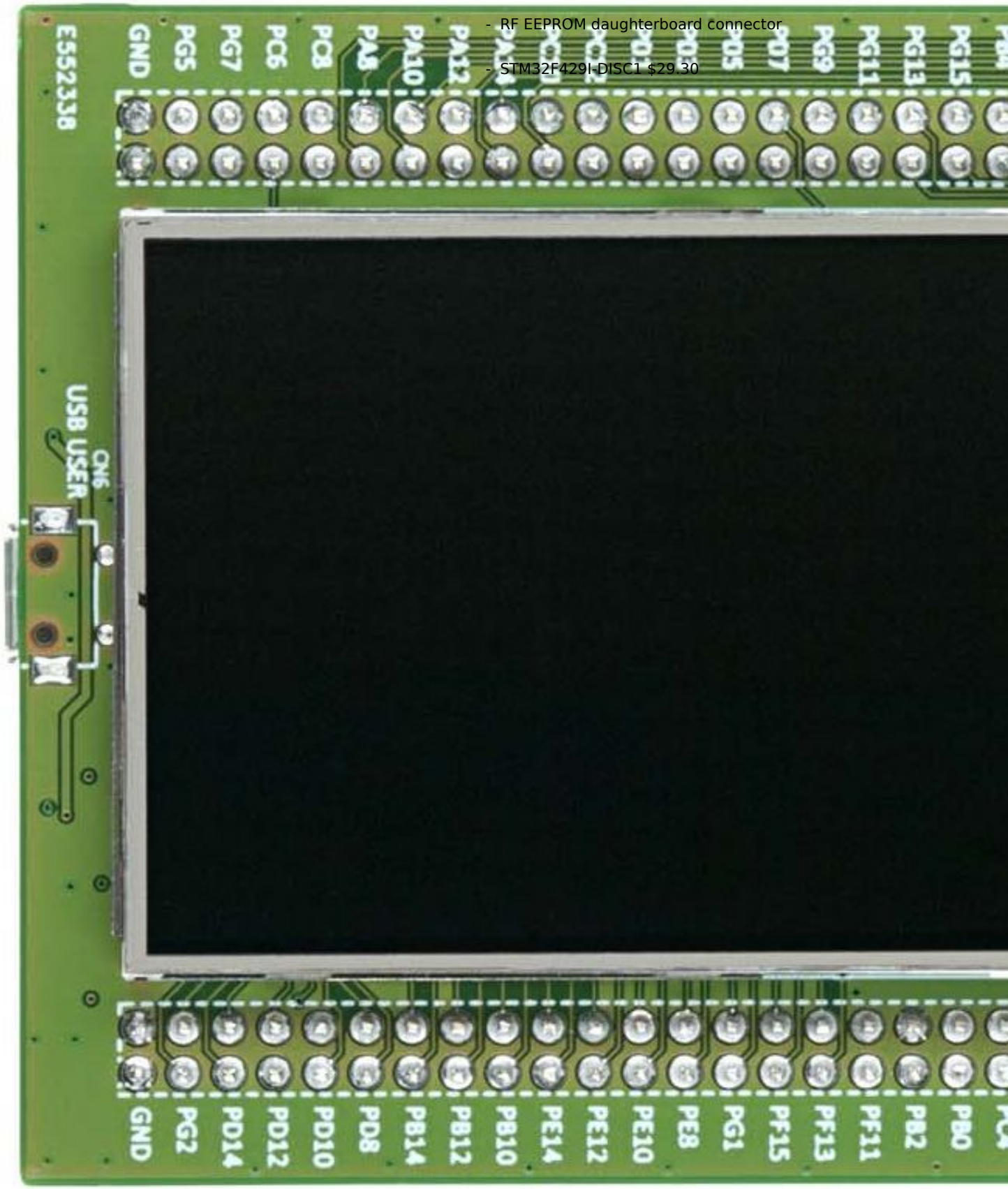
- STM32**F4**07VGT6 - 1 MB FLASH, 192 KB SRAM, LQFP100
-
- ST-LINK/V2 (old order code STM32F4DISCOVERY)
- ST-LINK/V2-A (new order code STM32F407G-DISC1) debug+VCP(jumper wires)+MSD
- user: 4x LED, 1x button
- USB OTG FS with micro-AB connector
- LIS302DL or LIS3DSH ST MEMS 3-axis accelerometer
- MP45DT02 ST MEMS audio sensor, omnidirectional digital microphone
- CS43L22, audio DAC with integrated class D speaker driver
- STM32F407G-DISC1 $19.50



32F429IDISCOVERY

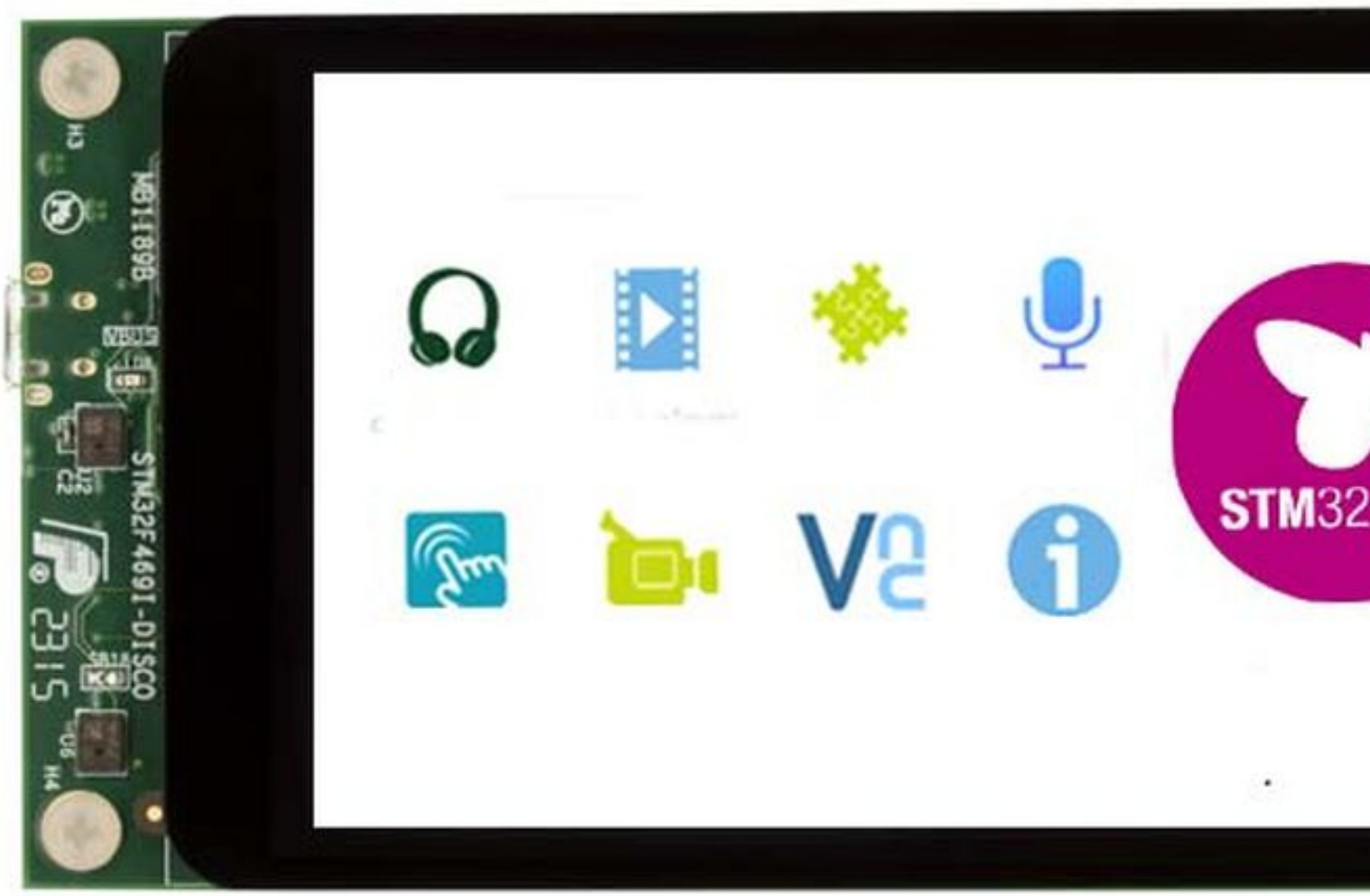
- STM32**F4**29ZIT6 - 2 MB FLASH, 256 KB SRAM, LQFP144
-
  - ST-LINK/V2 (old order code STM32F429I-DISCO)
  - ST-LINK/V2-B (new order code STM32F429I-DISC1) debug+VCP+MSD
- user: 2x LED, 1x button

- 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

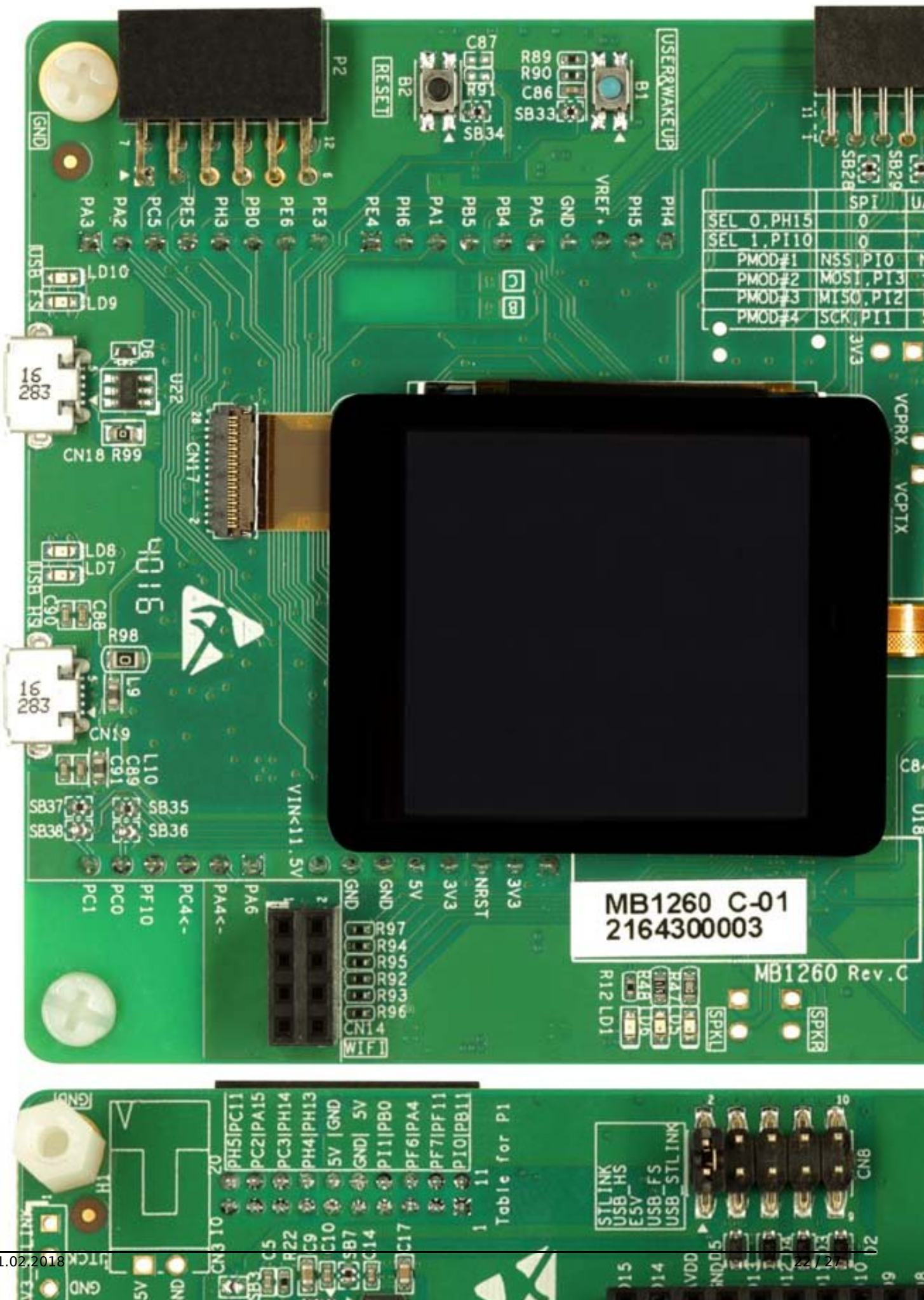
- STM32**F4**69NIH6 - 2 MB FLASH, 324 KB SRAM, BGA216
- ST-LINK/V2-1 (mbed-enabled, debug+VCP+MSD)
- user: 4x LED, 1x button
- 4" 800x480 TFT with MIPI DSI interface and capacitive touch screen
- 4Mx32bit SDRAM
- 128-Mbit Quad-SPI NOR Flash
- MicroSD card connector
- USB OTG FS with micro-AB connector
- 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


MB1189B
STM32F469I-DISCO
STM32


MB1189 B-01
2152400014
ARM
USB_USER

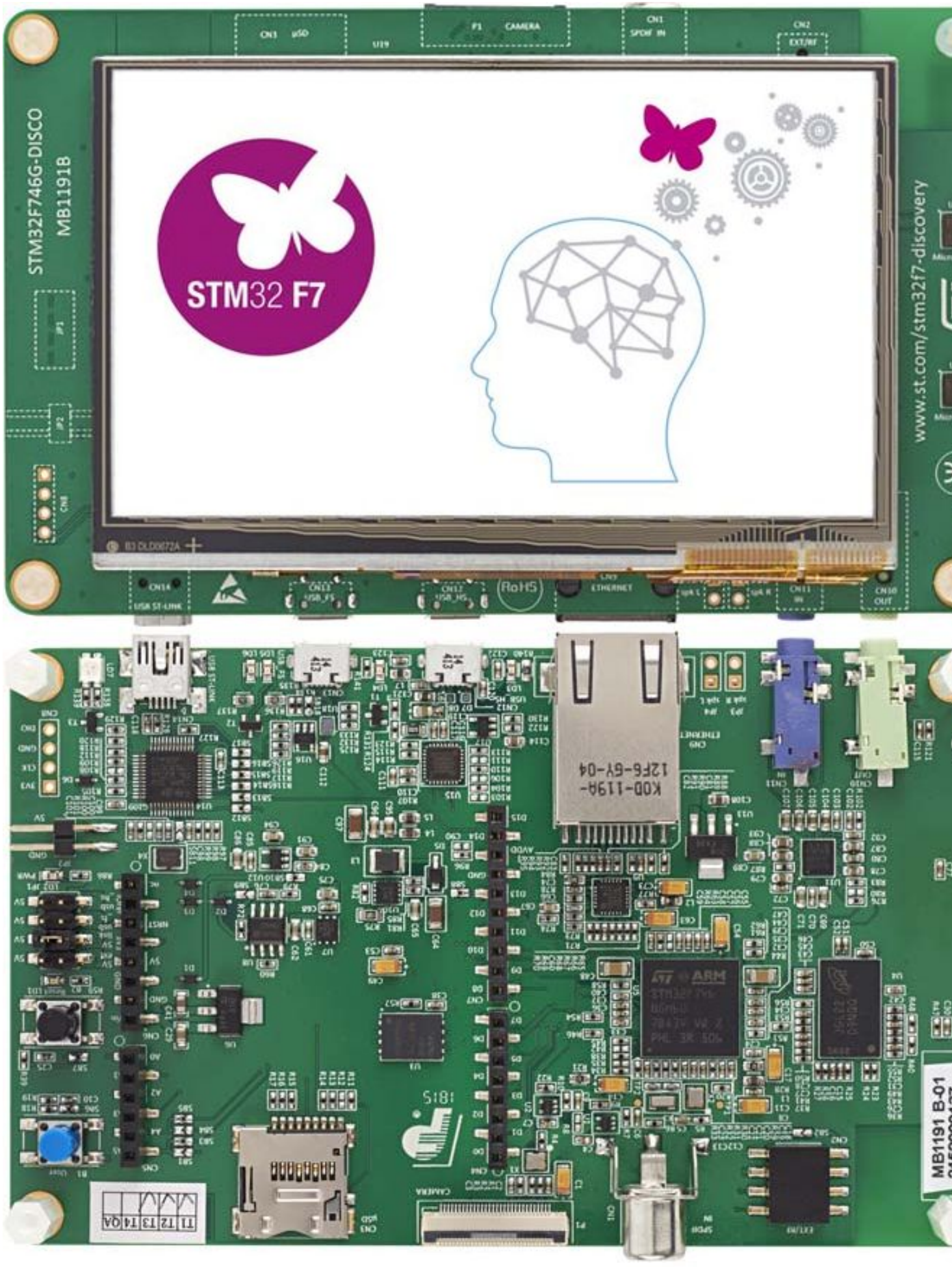
32F723EDISCOVERY

- STM32**F7**23IEK6 - 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


USER&WAKEUP
RESET
SPI
SEL 0,PH15 0
SEL 1,PI10 0
PMOD#1 NSS,PI0
PMOD#2 MOSI,PI3
PMOD#3 MISO,PI2
PMOD#4 SCK,PI1
MB1260 C-01
2164300003
MB1260 Rev.C
Table for P1

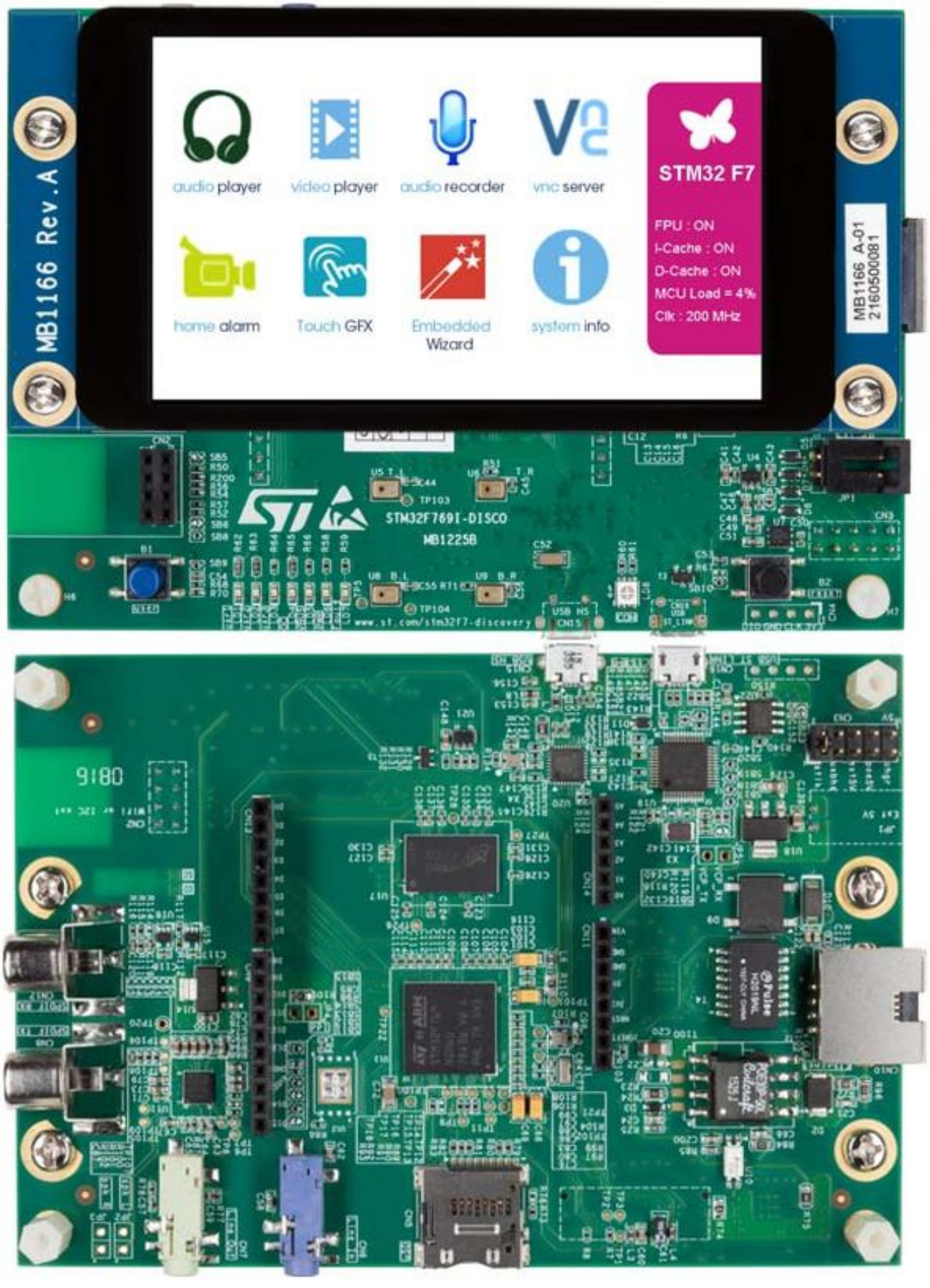
32F746GDISCOVERY

- 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


STM32F746G-DISCO
MB11918
STM32 F7
www.st.com/stm32f7-discovery
MB1191 B-01

32F769IDISCOVERY

- STM32**F7**69NIH6 - 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


MB1166 Rev.A
audio player
video player
audio recorder
vnc server
STM32 F7
FPU : ON
I-Cache : ON
D-Cache : ON
MCU Load = 4%
Clk : 200 MHz
home alarm
Touch GFX
Embedded Wizard
system info
MB1166_A-01
2160500081
STM32F769I-DISCO
MB1225B