

AT-Link-EZ V1.2

3V3 5V SMD BOOT0 SMC SMD NRST TX RX

CN7

CN6

C18 C15 C16 C19 U7 R43 LD: 1 2 3 4 J9

R51 U5 R11 R12 R49 R17 R50 D5 Y3 U6

R52 R48 R47 R46 R45 R44

AT-Link

CN2

B1 B2

RESET USER

CT1 CT2

U1

CB1

CB3 CB4

R40 R42 R43 R44 R45 R46 R47 R48

R2 R3 R4 R5 R6 R7 R8 R13 R14 R15 R16 R22 R24 R26 R27 R28 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R41 R42 R43 R44 R45 R46 R47 R48 R49 R50 R51 R52 R53 R54 R55 R56 R57 R58 R59 R60 R61 R62 R63 R64 R65 R66 R67 R68 R69 R70 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R91 R92 R93 R94 R95 R96 R97 R98 R99 R100

LED1 LED2 LED3 LED4

PA9_E PA10 OTG_FS ID

JP1 JP2 JP3 JP4 JP5 JP6 JP7

DDI

BOOT1 BOOT0

GND VDD

20-pin ARM standard JTAG

AT-START-F415 V1.3

J1

33 PB12 PB14 PC6 PC8 PA8 PA10_E PA12 PF6 PA14 PC10 PC12 PB3 PB5 PB7 PB8 GND 63

J2

31 GND PB10 PB1 PC5 PA7 PA5 PF5 PA3 PA1 NC PC3 PC1 NRST PD0 PC14 1 UBAT

J3

SCL SDA VDDA GND 13 12 11 10 9 8 7 6 5 4 3 2 1 TX RX

J4

IOREF RESET 3.3V 5V GND GND VIN

J5

DIGITAL(#=PWM)

J6

AD A1 A2 A3 A4 A5

J7

MISO SCK RESET NSS

J8

USART1_TX USART1_RX GND

USB HOST

5V MOSI GND PB11

USB OTG

CN1

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AT-START-F415 V1.3

AT-Link-EZ V1.2

AT-Link

20-pin ARM standard JTAG

USB HOST

USB OTG

RESET USER

IOREF RESET 3.3V 5V GND GND VIN

AD A1 A2 A3 A4 A5

MISO SCK RESET NSS

5V MOSI GND PB11

USART1_TX USART1_RX GND

DIGITAL(#=PWM)

SCL SDA VDDA GND 13 12 11 10 9 8 7 6 5 4 3 2 1 TX RX

BOOT1 BOOT0

LED1 LED2 LED3 LED4

PA9_E PA10 OTG_FS ID

JP1 JP2 JP3 JP4 JP5 JP6 JP7

DDI

GND VDD

1 3 5 7 9 11 NC 13 15 17 19 21 23 25 27 29 31
2 4 6 8 10 NC 12 14 16 18 20 22 24 26 28 30 32

AT32F415RCT7-7



L1
CB8
CB9
L2

CB11
CB10
CT3

R34 R31 R32
R33 R21 R19

6A 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34
63 61 59 57 55 53 51 49 47 45 43 41 39 37 35 33

TP1

R17

3V3 3V3
GND NJTRST
GND JTDI
GND JTMS
GND JTCK
GND NC
GND JTDO
GND NRST
GND NC
GND NC

E5V 3V3
BOOT0 SWDIO
SW0 SWCLK
USART1_RX NRST
USART1_TX GND
R53
R9
R10
R23

TP3

RP1
C21
C20
C9
C8
C22
C12
C10
C11
M-BOOT0 VDD
VDD M-SWDIO
M-SWCLK
M-NRST
GND

D4 D3