

Nut Nhan 2 Chan   SMD 3x6x2.5   BT1	1 
C1, C3, C4, C6, C12, C15, C20, C22	10 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
104 Dán C15, C20, C22 tu 0603 10%  C2, C5, C8, C11, C13, C14, C16, C17, C18, C14, C14, C16, C17, C18, C14, C16, C17, C18, C14, C14, C14, C14, C14, C14, C14, C14	10 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C2, C5, C8, C11, C13, C14, C16, C17, C18, C14, C14, C16, C17, C18, C14, C14, C16, C17, C18, C14, C14, C14, C14, C14, C14, C14, C14	10 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dan   C7, C9, C10   tu 0603   10%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
226         Dán         C7, C9, C10         tu 0603         10%           SS14         Dán         D1         DIODE SMA         Diode SS14 (1N5819)           0.5W 5.1V         Dán         D2         SMD SOD80         Diode Zener 5.1V           SS34         Dán         D3         DIODE SMA         1N5822)           DHT22         DHT1         DHT22         DHT22         DHT22           3A 16V         RUE SERIES 3A 16V         F1         FUSE-RUEF250U-2         3A 16V           Ferrite bead 120 Ohm at 100 MHz 2A Offs 3MD         FB1, FB2         INDC1608N         Header 2P 2.54 D           Thang         Cám         H2         XH2.54M-2         Thang           W25Q16         IC1         W25Q16 -SOIC8         W25Q16           MT3608         IC2         SOT23-6A         MT3608_Boost           AMS1117 3.3V         IC6         SOT223         AMS1117 3.3V           DW01A         IC9         SOP8         TP4056 1A           F58205A         IC10         SOT-23-6L         FS8205A           JP 1x4 2.54 Duc         JP 1x5 2.54 Duc         JP 1x5 2.54 Duc           JP 1x5 2.54         Cám         JP 2         JP 1x5 DT         Thang           JP 1x4 2.54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diode SMA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DIODE ZENNER   SMD SOD80   Diode Zener 5.1V   Diode SS34 (	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0.5W 5.1V         Dán         D2         SMD SOD80         Diode Zener 5.1V           SS34         Dán         D3         DIODE SMA         1N5822)           DHT22         DHT1         DHT22         DHT22           FUSE POLYSWITCH 3A 16V         RUE SERIES 3A 16V         F1         FUSE-RUEF250U-2         3A 16V           120R         O603 SMD         F51         FUSE-RUEF250U-2         3A 16V           120R         O603 SMD         FB1, FB2         INDC1608N         0603           Header 2P 2.54 Duc Thang         Header 2P 2.54 D         Thang         Header 2P 2.54 D           W25016         IC1         W25016 - SOIC8         W25016           MT3608         IC2         SOT23-6A         MT3608_Boost           AMS1117 3.3V         IC6         SOT223         AMS1117 3.3V           DW01A         IC8         SOT23127P600-8N         DW01A           TP4056 1A         IC9         SOP8         TP4056 1A           FS8205A         IC10         SOT-23-6L         FS8205A           JP 1x4 2.54 Duc         JP 1x5 2.54 Duc           JP 1x5 2.54 Uc         JP 1x5 2.54 Duc           JP 1x6 2.54         Cám         JP 2         JP 1x6 DT         Thang	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diode SS34 (   Diode SS34 (   N15822 )	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SS34         Dán         D3         DIODE SMA         1N5822 )           DHT22         DHT1         DHT22         DHT22           3A 16V         FUSE POLYSWITCH         Cau chi tu phuc he           3A 16V         FERRITE SA 16V         FUSE-RUEF250U-2         A3 16V           Ferrite bead 120 Ohm at 100 MHz 2A 0603 SMD         FEB1, FB2         INDC1608N         0603           Header 2P 2.54 Duc Thang         Cám         H2         XH2.54M-2         Thang           W25Q16         IC1         W25Q16 - SOIC8         W25Q16           MT3608         IC2         SOT23-6A         MT3608_Boost           AMS1117 3.3V         IC6         SOT223         AMS1117 3.3V           DW01A         IC8         SOT23127P600-8N         DW01A           TP4056 1A         IC9         SOP8         TP4056 1A           FS8205A         IC10         SOT-23-6L         FS8205A           JP 1x4 2.54         Cám         JP1         JP 1x5 DT         Thang           JP 1x5 2.54         Cám         JP2         JP 1x5 DT         Thang           JP 1x6 2.54         Cám         JP3         JP 1x6 DT         Thang           JP 1x4 2.54         Cám         JP3         JP 1x6 DT	1 1 2 JC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FUSE POLYSWITCH RUE SERIES 3A 16V Ferrite bead 120 Ohm at 100 MHz 2A 0603 SMD FB1, FB2 INDC1608N G603 Header 2P 2.54 Duc Thang Cám H2 XH2.54M-2 Thang W25Q16 IC1 W25Q16-SOIC8 W25Q16 MT3608 IC2 SOT23-6A MT3608_Boost AMS1117 3.3V IC6 SOT223 AMS1117 3.3V IC8 SOT223 AMS117 3.3V IC9 SOP8 TP4056 1A IC9 SOP8 TP4056 1A IC9 SOP8 JP 1x4 2.54 Duc JP 1x4 2.54 Duc JP 1x5 2.54 Cám JP1 JP 1x5 2.54 Duc JP 1x6 2.	1 1 2 JC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3A 16V RUE SERIES 3A 16V F1 FUSE-RUEF250U-2 3A 16V Ferrite bead 120 Ohm at 100 MHz 2A 0603 SMD FB1, FB2 INDC1608N 0603 Header 2P 2.54 Duc Thang Câm H2 XH2.54M-2 Thang W25Q16 IC1 W25Q16 -SOIC8 W25Q16 MT3608 IC2 SOT23-6A MT3608_Boost AMS117 3.3V IC6 SOT223 AMS1177 3.3V DW01A IC8 SOT23127P600-8N DW01A IC9 SOP8 TP4056 1A IC9 SOP8 TP4056 1A IC9 SOP8 TP4056 1A IC10 SOT-23-6L FS8205A IC10 SOT-23-6L FS8205A JP 1x4 2.54 Duc JP 1x4 2.54 Duc JP 1x5 2.54 Duc JP 1x5 2.54 Duc JP 1x6 2.54 Duc JP 1x6 2.54 Duc JP 1x6 2.54 Duc JP 1x6 2.54 Duc JP 1x4 2.54 Câm JP3 JP 1x6 DT Thang JP 1x4 2.54 Duc JP 1x4 2.54 Câm JP3 JP 1x6 DT Thang JP 1x4 2.54 Duc IND_22uH-3A-30%	1 1 2 JC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ferrite bead 120	2 1 1 1 1 1 1
Ohm at 100 MHz 2A   FERI, FB2   INDC1608N   FERRITE_120R_2.5   O603   MD   O603	2 1 1 1 1 1 1
120R         0603 SMD         FB1, FB2         INDC1608N         0603           Header 2P 2.54 Duc Thang         Cẩm         H2         XH2.54M-2         Thang           W25Q16         IC1         W25Q16 - SOIC8         W25Q16           MT3608         IC2         SOT23-6A         MT3608_Boost           AMS1117 3.3V         IC6         SOT223         AMS1117 3.3V           DW01A         IC8         SOT23127P600-8N         DW01A           FS8205A         IC10         SOP8         TP4056 1A           FS8205A         JP 1x4 2.54 Duc         JP 1x4 2.54 Duc           JP 1x5 2.54         Cẩm         JP1         JP 1x5 DT         Thang           JP 1x5 2.54         Cẩm         JP 2         JP 1x5 DT         Thang           JP 1x6 2.54 Duc         JP 1x6 2.54 Duc         Thang         JP 1x6 2.54 Duc           JP 1x4 2.54         Cẩm         JP 2         JP 1x6 DT         Thang           JP 1x4 2.54         Cẩm         JP 2         JP 1x6 DT         Thang           JP 1x4 2.54         Cẩm         JP 2         JP 1x6 DT         Thang           JP 1x4 2.54         Cẩm         JP 1x4 2.54 Duc         Cong	2 1 1 1 1 1 1
Thang         Cẩm         H2         XH2.54M-2         Thang           W25Q16         IC1         W25Q16 -SOIC8         W25Q16           MT3608         IC2         SOT23-6A         MT3608_Boost           AMS1117 3.3V         IC6         SOT223         AMS1117 3.3V           DW01A         IC8         SOT23127P600-8N         DW01A           TP4056 1A         IC9         SOP8         TP4056 1A           FS8205A         IC10         SOT-23-6L         FS8205A           JP 1x4 2.54         Cẩm         JP1         JP 1x4 DT         Thang           JP 1x5 2.54         Cẩm         JP2         JP 1x5 DT         Thang           JP 1x6 2.54         Cẩm         JP3         JP 1x6 DT         Thang           JP 1x4 2.54         Cẩm         JP3         JP 1x6 DT         Thang           JP 1x4 2.54         Cẩm         JP4         JP 1x4 DC         Cong           IP 1x4 2.54         Cẩm         JP4         JP 1x4 DC         Cong	1 1 1 1
W25016         IC1         W25016 - SOIC8         W25016           MT3608         IC2         SOT23 - 6A         MT3608 Boost           AMS1117 3.3V         IC6         SOT223         AMS1117 3.3V           DW01A         IC8         SOT23127P600-8N         DW01A           TP4056 1A         IC9         SOP8         TP4056 1A           FS8205A         IC10         SOT-23-6L         FS8205A           JP 1x4 2.54         DL         JP 1x4 2.54 Duc         Thang           JP 1x5 2.54         Câm         JP 1         JP 1x5 DT         Thang           JP 1x6 2.54         Câm         JP 3         JP 1x6 DT         Thang           JP 1x4 2.54         Câm         JP 3         JP 1x6 DT         Thang           JP 1x4 2.54         Câm         JP 4         JP 1x4 DC         Cong           Fixed Inductors         MS51038 SMT         Shielded 15 uH 20         IND_22uH-3A-30%	1
MT3608   IC2   SOT23-6A   MT3608_Boost   AMS1117 3.3V   IC6   SOT223   AMS1117 3.3V   DW01A   IC8   SOT23127P600-8N   DW01A   TP4056 1A   IC9   SOP8   TP4056 1A   FS8205A   IC10   SOT-23-6L   FS8205A   JP 1x4 2.54   DUC   Thang   JP 1x5 2.54   Câm   JP1   JP 1x4 DT   Thang   JP 1x5 2.54   DUC   Thang   JP 1x6 2.54   DUC   JP 1x6 2.54   DUC   JP 1x6 2.54   DUC   Thang   JP 1x4 2.54   Thang   JP 1x4 2.54   DUC   Thang	1
AMS1117 3.3V   IC6   SOT223   AMS1117 3.3V   DW01A   IC8   SOT23127P600-8N   DW01A   TP4056 1A   IC9   SOP8   TP4056 1A   FS8205A   IC10   SOT-23-6L   FS8205A   JP 1x4 2.54   DUC   Thang   JP 1x5 2.54   Câm   JP1   JP 1x4 DT   Thang   JP 1x5 2.54   DUC   Thang   JP 1x6 2.54   DUC   JP 1x6 2.54   DUC   JP 1x6 2.54   DUC   JP 1x4 2.54   DUC   Thang   JP 1x6 2.54   DUC   Thang   JP 1x6 2.54   DUC   Thang   JP 1x6 2.54   DUC   Thang   JP 1x4 2.54   D	+ -
DW01A         IC8         SOT23127P600-8N         DW01A           TP4056 1A         IC9         SOP8         TP4056 1A           FS8205A         IC10         SOT-23-6L         FS8205A           JP 1x4 2.54         DW         JP 1x4 2.54 Duc         Thang           JP 1x5 2.54         Câm         JP2         JP 1x5 DT         Thang           JP 1x6 2.54 Duc         JP 1x6 2.54 Duc         JP 1x6 2.54 Duc           JP 1x4 2.54         Câm         JP 3         JP 1x6 DT         Thang           JP 1x4 2.54         Câm         JP 3         JP 1x4 DC         Cong           Fixed Inductors         MS51038 SMT         IND_22uH-3A-30%           Shielded 15 uH 20         IND_22uH-3A-30%	+ -
TP4056 1A IC9 SOP8 TP4056 1A FS8205A IC10 SOT-23-6L FS8205A JP 1x4 2.54 Duc JP 1x4 2.54 DT Thang JP 1x5 2.54 DT Thang JP 1x6 2.54 DUc JP 1x6 2.54 DT Thang JP 1x6 2.54 Duc JP	1 1 1 1 1 1 1 1 1 1 1
FS8205A IC10 SOT-23-6L FS8205A  JP 1x4 2.54 Duc  JP 1x4 2.54 Du  JP 1x5 2.54 Du  JP 1x5 2.54 Du  JP 1x5 2.54 Du  JP 1x5 2.54 Du  JP 1x6 2.54 Duc  JP 1x4 2.54 Duc  IND 22uH-3A-309	1 1 1 1 1 1 1 1
JP 1x4 2.54 Duc JP 1x4 2.54 Du JP 1x4 2.54 Du JP 1x5 2.54 Du JP 1x6 2.54 Du JP 1x6 2.54 Du JP 1x6 2.54 Du JP 1x6 2.54 Du JP 1x4 2.54 Du	1 1 1
JP 1x4 2.54         Cấm         JP1         JP 1x4 DT         Thang           JP 1x5 2.54         Cẩm         JP2         JP 1x5 DT         Thang           JP 1x6 2.54         DT         Thang         JP 1x6 2.54 Duc           JP 1x6 2.54         Cẩm         JP3         JP 1x6 DT         Thang           JP 1x4 2.54         Cẩm         JP4         JP 1x4 DC         Cong           Fixed Inductors MSS1038 SMT Shielded 15 uH 20         IND_22uH-3A-30%	1 1
JP 1x5 2.54 Duc Thang JP 1x6 2.54 Duc Cong JP 1x4 2.54 Duc Cong Fixed Inductors MSS1038 SMT Shielded 15 uH 20	1
JP 1x6 2.54 Duc JP 1x6 2.54 Duc Thang JP 1x6 2.54 Duc Thang JP 1x4 2.54 Duc Thang JP 1x4 2.54 Duc Cong Fixed Inductors MSS1038 SMT Shielded 15 uH 20 IND_22uH-3A-309	1
JP 1x6 2.54 Cẩm JP3 JP 1x6 DT Thang  JP 1x4 2.54 Cẩm JP4 JP 1x4 DC Cong  Fixed Inductors  MSS1038 SMT Shielded 15 uH 20 IND_22uH-3A-309	1
JP 1x4 2.54	'
JP 1x4 2.54         Cẩm         JP4         JP 1x4 DC         Cong           Fixed Inductors MSS1038 SMT Shielded 15 uH 20         IND_22uH-3A-309	
MSS1038 SMT Shielded 15 uH 20 IND_22uH-3A-309	1
Shielded 15 uH 20 IND_22uH-3A-30%	
IND_22uH-3A	1
LED 0603 SMD	
Green 525nm	
LED SMD 0603 350mcd 20mA LED1, LED4 LED-0603-BLUE LED SMD 0603  LED 0603 SMD	2
Green 525nm	
LED SMD 0603 350mcd 20mA LED2, LED3 LED-0603-RED LED SMD 0603	2
MOSFET P-CH 30V AO3401 30V/4A 4A SOT23 O2 SOT23 3 AO3401	
AO3401 30V/4A 4A SOT23 Q2 SOT23_3 AO3401 R1, R2, R3, R4, R5,	1
R6, R12, R13, R16, Tro 0603 1% 10k,	
10k Dán R22, R23, R33 tro smd 0603 Tro 0603 5% 10k	12
47R Dán R7, R8, R9, R10 tro smd 0603 Tro 0603 1% 47R	4
100k Dán R11 tro smd 0603 Tro 0603 5% 100k	
1.8k Dán R14 tro smd 0603 Tro 0603 1% 1.8k	1
910R Dán R15 tro smd 0603 Tro 0603 1% 910F	_
3.3k Dán R17, R18 tro smd 0603 Tro 0603 5% 3.3k	2
1k Dán R19, R28, R29, R30 tro smd 0603 Tro 0603 5% 1k	4
4.7k Dán R20, R21 tro smd 0603 Tro 0603 5% 4.7k	2
100R Dán R24, R25, R27 tro smd 0603 Tro 0603 5% 100R	_
2.2k Dán R26 tro smd 0603 Tro 0603 5% 2.2k	1
1.2k Dán R31 tro smd 0603 Tro 0603 1% 1.2k	1
0.5R Dán R34 tro smd 0805 Tro 0805 5% 0.5R	1
7D180K DISC 7MM R44 VARISTOR-7D180K Varistor 7D180K	1
Wi-Fi/BT BLE	1
Module ESP32-	
ESP32-WROOM-32U D0WD U1 ESP32-WROOM-32 ESP32-WROOM-3	_
USB Micro 5p DIP USB Type B USB1 USB Micro 5p DIP USB Micro 5p DIP USB Micro 5p DIP USB Micro 5p DIP	1
Bien Tro Tam Giac Bien tro tam giac 100K Cam VR2 Dung 100K Dung	