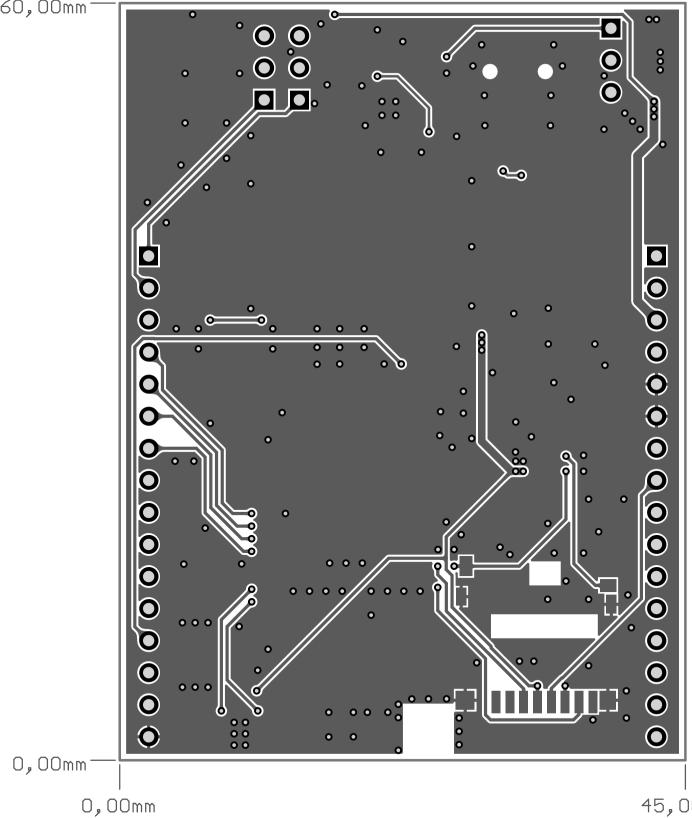
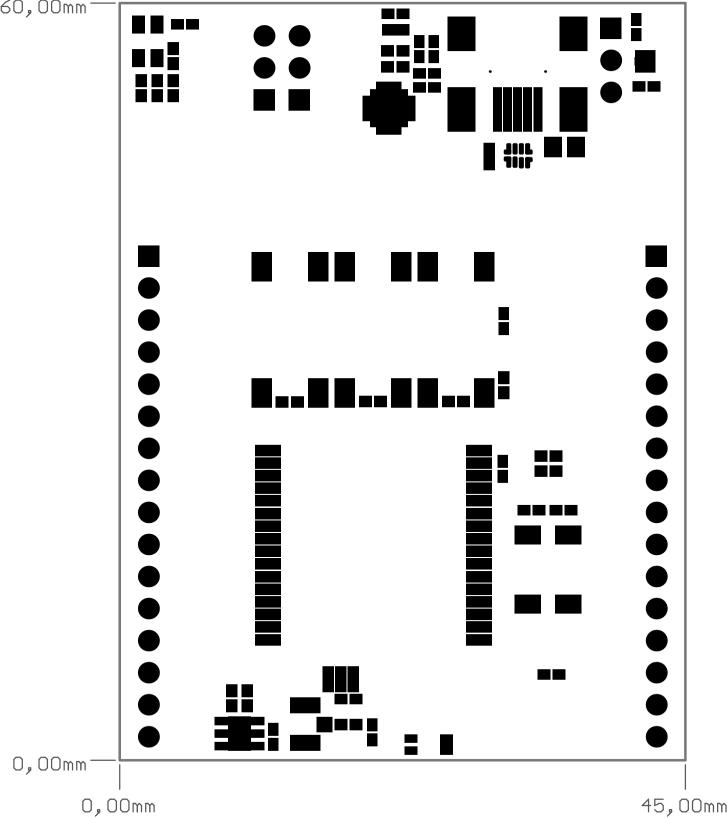


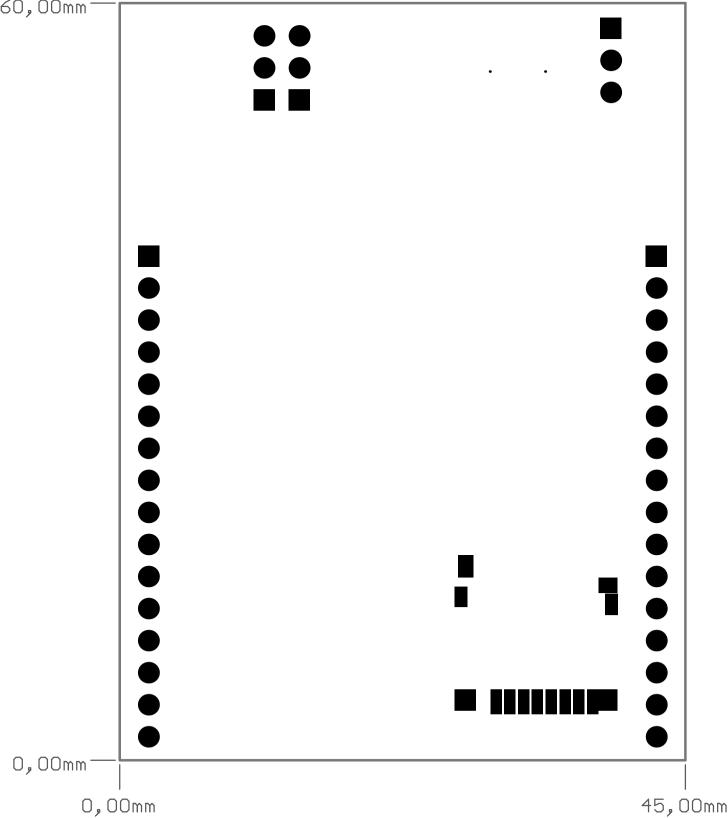
0,00mm

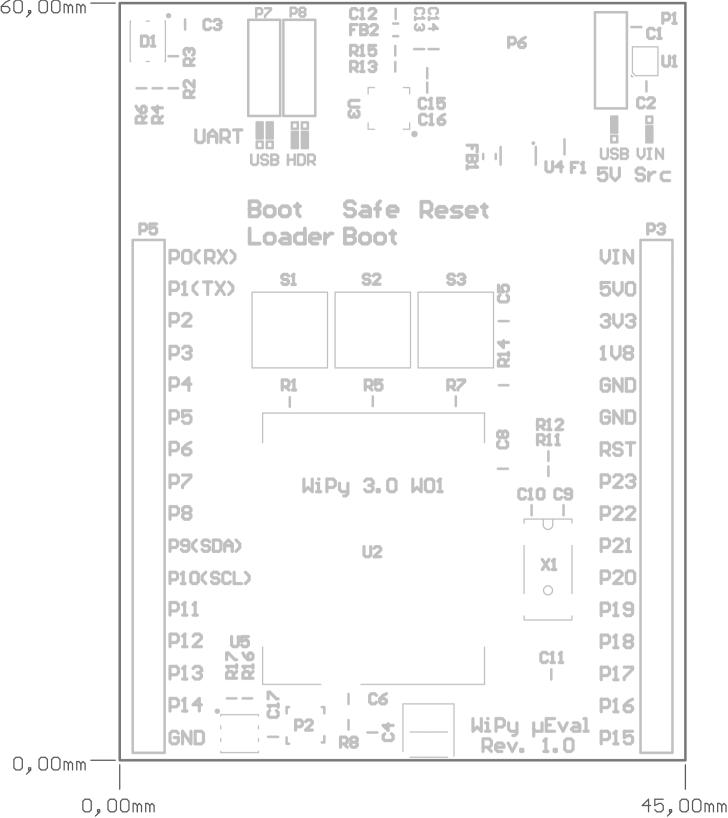
45,00mm

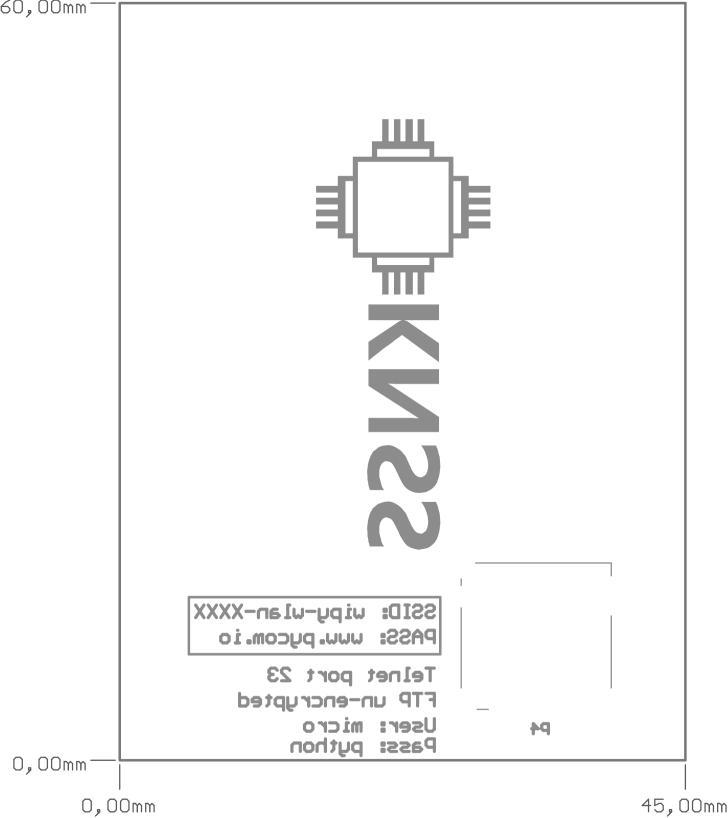


45,00mm









Board Stack Report

| | Stack Up | Layer Stack | | | | | | |
|-------|-------------------|---------------------|---------------------|-----------|----------|--|--|--|
| Layer | Board Layer Stack | Name | Material | Thickness | Constant | | | |
| 1 | | Top Paste | | | | | | |
| 2 | | Top Overlay | | | | | | |
| 3 | | Top Solder | Solder Resist | 0,40mil | 3,5 | | | |
| 4 | | Top Layer | Copper | 1,40mil | | | | |
| 5 | | Dielectric 1 | FR-4 | 61,02mil | 4,8 | | | |
| 6 | | Bottom Layer | Copper | 1,40mil | | | | |
| 7 | | Bottom Solder | Solder Resist 0,40n | | 3,5 | | | |
| 8 | | Bottom Overlay | | | | | | |
| 9 | | Bottom Paste | | | | | | |
| | Height : 64,62mil | | | | | | | |

| Ministry | Designat | | | Tolorano | MaxVolta | | | | Supplier | Supplier Part | | Manufacturer Part | | Supplier Part |
|--|------------|---------------------------|------------|----------|----------|--|-----------------|----------------------------|-------------|----------------|--|-------------------|------------|--|
| Common Processor | | | Value | | | Quantity | Manufacturer 1 | Manufacturer Part Number 1 | | * * | Manufacturer 2 | | Supplier 2 | |
| Part | | | | | J. | | | | | | | | | |
| A | | | | | | | | | | | | | | |
| Color Colo | | x L x H (3.2 x 1.6 x 1.1 | | | | | Pulse | | | | Pulse | | | |
| 13.00 10.0 | A1 | mm) | | | | 1 | Electronics | W3008 | Farnell | 2897223 | Electronics | W3008 | Mouser | 673-W3008 |
| Color Colo | C1, C2, | | | | | | | | | | | GRT155C80J225KE01 | | |
| Column C | C13, C15 | 0402 SMD Capacitor | 2.2u | 10% | 6.3V | 4 | Murata | GRT155C80J225KE01D | Farnell | 2672104 | MURATA | D | Farnell | 2672104 |
| Color Colo | C3, C8, | | | | | | | | | | | | | |
| Color Dec 25MD Caparation Door 100 100 100 20 20 Multisome Mode Multisome Multisome Mode Multisome Mode Multisome Mu | | | | | | | | | | | | | | |
| Color Colo | | | | | | | | | | | | | | |
| Quantity | | l | | | | _ | l | | | | l | | L | |
| March Marc | C16, C17 | 0402 SMD Capacitor | 100n | 10% | 16V | 7 | Multicomp | MC0402B104K100CT | Farnell | 2627343 | Multicomp | MC0402B104K100CT | Farnell | 2627343 |
| Orange Company Compa | C4, C6 | 0402 SMD Capacitor | DNP | | | 2 | | | | | | | | |
| March Marc | C5 | 0402 SMD Capacitor | 100p | 10% | 25V | 1 | Multicomp | MC0402B101K250CT | Farnell | 1758898 | AVX | 04025A101JAT2A | TME | 04025A101JAT2A |
| 12 SMID SMID SIGNATURE | | | | | | | | | | | | VJ0402A100FXACW1B | | VJ0402A100FXAC |
| 1 | C9, C10 | 0402 SMD Capacitor | 10p | 5% | 50V | 2 | Vishay | VJ0402A100JXACW1BC | Farnell | 2896329 | VISHAY | С | TME | W1BC |
| 15- 20m/s. Common 15- | | LED; SMD; 3528,PLCC4; | | | | | | | | | | | | |
| 10 Mode | | | | | | | | | | | | | | |
| Fig. | | | | | | | | | | | | | | |
| 1911 Feb | D1 | anode | | | | 1 | Broadcom | ASMB-MTB1-0A3A2 | Farnell | 2401106 | BROADCOM | ASMB-MTB1-0A3A2 | TME | 0A3A2 |
| 12, 22 Seminative | F1 | PTC Fuse 500mA | | | | 1 | ECE | SR075-06 | TME | SR075-06 | | | | |
| 11.12.15 beader jumper | FB1, FB2 | Ferrite Bead | 120@100MHz | 25% | | 2 | Murata | BLM15PD121SN1D | Farnell | 2443229 | Murata | BLM15PD121SN1D | Farnell | 2443229 |
| P. P. P. P. P. P. P. P. | | 1x2, 2.54mm Black | | | | | | | | | | | | |
| Pin | J1, J2, J3 | header jumper | | | | 3 | NINIGI | JUMPER-B | TME | JUMPER-B | | | | |
| Page Hose UFL connector Page Hose UFL connector Page Hose UFL connector Page | P1, P7, | | | | | | | | | | | | | |
| New Note of the Commendation New Note | P8 | Pin header, 1x3, 2.54mm | | | | 3 | CONNFLY | DS1021-1*3SF1-1 | TME | ZL201-03G | | | | |
| Page | | | | | | | | | | | | | RSCompo | |
| Memory Card Connection Amphenol Commercial 14-00841-68 Famell 2666772 Commercial 114-00841-68 Sach 170 Commercial 114-00841-68 Famell 2666772 Commercial 114-00841-68 Mouser 523-114-00841-68 Sach 170 Commercial Saft positions v. USB Connection Value | P2 | Hirose UFL connector | | | | 1 | Hirose | U.FL-R-SMT-1(10) | Farnell | 1688077 | Hirose | U.FL-R-SMT-1(10) | nents | 557-981 |
| Connectors Micro SD 8 Amphenol Connectors Micro SD 8 Amphenol Connection Size SD 8 Connection | P3, P5 | Header, 16-Pin | | | | 2 | Samtec | SSQ-116-23-F-S | Mouser | 200-SSQ11623FS | Samtec | SSQ-116-23-F-S | Farnell | 2283824 |
| Pin RDB Gold Pin PDB GOLD Pin | | Memory Card | | | | | | | | | | | | |
| Comparison | | Connectors Micro SD 8 | | | | | Amphenol | | | | Amphenol | | | |
| SMT: poziome: V. USB V. US | P4 | Pin PCB Gold | | | | 1 | Commercial | 114-00841-68 | Farnell | 2666772 | Commercial | 114-00841-68 | Mouser | 523-114-00841-68 |
| Pack 20.2 zlocony | | Gniazdo; USB B mini; | | | | | | | | | | | | |
| R1, R5, R7, R12, R12, R12, R12, R12, R12, R12, R12 | | | | | | | | | | | | | | |
| RZ, R12, R16, R17 Q402 Film SMD Resistor R2, R13, R14, R2, R3, R4, R6 Q402 Film SMD Resistor R3, R14, R14, R14, R14, R15, R14, R14, R14, R14, R14, R14, R14, R14 | | 2.0; złocony | | | | 1 | ADAM TECH | MUSB-B5-S-RA-TSMT-CS1 | TME | SMT | | | | |
| R16, R17 | | | | | | | L | | | | | | | |
| R2, R3, R4, R6 | | 0.400 Films CMAD Devictor | 41. | 10/ | | , | | 000040014140 | F | 4474454 | | | TNAF | |
| R4, R6 0402 Film SMD Resistor 50 1% 1 Panasonic EBJ-2GE0ROX Farnell R12, EBG1390 VAGEO R0402FR-07150R TME R0402FR-07150R R8 0402 Film SMD Resistor 50 1% 1 Panasonic EBJ-2GE0ROX Farnell EBJ-2GE0ROX Farnell R12, EBG1390 R04022EXFKTD R040222EXFKTD R04 | | 0402 Film SIVID Resistor | 1K | 1% | | 6 | iveonm | CRG0402JTK0 | Farnell | 11/4154 | VISHAY | BC | TIVIE | LDBC |
| R8 0402 Film SMD Resistor 0 1% 1 Panasonic ERJ-2GEDROOX Farnell ERJ2GEDROOX CRCW040222K0FKT CRCW040222K0FKT CRCW040222K0FKT TMC TOBC R11, R13, R14 0402 Film SMD Resistor 2kk 1% 1% 3 TE Connectivity CRGC00402F2KK Farnell 2861416 VISHAY BC TMC TOBC R15 0402 Film SMD Resistor 47k 1% 1% 1 TE Connectivity CRGC00402F47K Farnell 2861420 ROYAL OHM 0402WGF4702TCE TME SMD0402-47K-1% R16, SPST-NU-2 SINDIO , 05A712VDC; SINDIO , | | 0402 Film SMD Posistor | 150 | 10/ | | , | TE Connectivity | CDCCC0403F1F0D | Formall | 2041200 | VACEO | DC0402ED 071E0D | TNAE | DC0403ED 071E0D |
| RT1, RT1, RT1, RT2, RT3, RT2, RT3, RT2, RT3, RT3, RT3, RT3, RT3, RT3, RT3, RT3 | | | 130 | | | | | | | ł | TAGEO | RC0402FR-07150R | TIVIE | RC0402FR-07150R |
| R13, R14 0402 Film SMD Resistor 22k 19k 19k 19k 19k 10 10 10 10 10 10 10 1 | | 0402 Film SMD Resistor | 0 | 1% | | 1 | Panasonic | ERJ-2GE0R00X | Farnell | ERJ2GE0R00X | | | | 0001101000010011 |
| RT5 0402 Film SMD Resistor 47K 1% 1% 1 TE Connectivity CRGCQ0402F47K Famell 2861420 ROYAL OHM 0402WGF4702TCE TME SMD0402-47K-1% Famell 27777 Schurter 1301.9319 TME 1301.9 | | 0.400 Films CMAD Devictor | 201- | 10/ | | | TE O th dt | 0000004005001/ | F | 00/141/ | \((C) \((A)\((A)\((A)\((A)\((A)\((A)\((A)\((| | TNAF | |
| TACT; SPST-NO: 2 position: 0.05A/12VDC; SMT | | | | | | | | | | - | | | | |
| S1, S2, Position: 0,05A/12VDC; SMT | R15 | | 47k | 1% | | 1 | TE Connectivity | CRGCQ0402F47K | Farnell | 2861420 | ROYAL OHM | 0402WGF4702TCE | TME | SMD0402-47K-1% |
| SMT | 64.66 | | | | | | | | | | | | | |
| 3.3V 1A LDO Voltage Regulator 3.3V Semiconductor NCP186AMX330TAG Farnell 2507590 Semiconductor NCP186AMX330TAG Semiconductor NCP186AMX330TAG Farnell 2507590 Semiconductor NCP186AMX330TAG Semiconductor NCP186AMX | | ľ | | | | _ | Cabumtas | 1201 0210 | Form - " | 1017771 | Cabumtar | 1201 0210 | TNAF | 1201 0210 |
| Vicinity | | | | | | 3 | | 1301.9319 | rarnell | 121///1 | schurter | 1301.9319 | IIVIE | 1301.9319 |
| Wireless LAN Module, | | | 3 3\/ | | | 1 | | NICD1864WAX330TAG | Farpoll | 2507590 | | | | |
| IZC, IZS, SPI, UART, M2M, Internet of Things M2M, Internet of Th | 01 | | J.J V | - | | - ' | Serniconductor | INCL TOURIVINGSUTAG | ı ai i ieli | 2307370 | | | | |
| U2 M2M, Internet of Things 1 Pycom W01 Farnell 2834998 Pycom W01 Mouser 365-W01 USB Interface IC USBXpress - USB to USBX press - USB to UART Bridge QFN20 1 Silicon Labs CP2102N-A01-GQFN20 Farnell 2577277 Silicon Labs GQFN20 Mouser 20 STMicroelectronics Common Mode Filter with ESD protection, USB with ESD protection, USB 5TMicroelectro STMicroelectro Farnell 2629721 Let UMIDITY AND TEMPERATURE SENSOR SIIIcon Labs SI7006-A20-IM Farnell 2473658 SIIIcon Labs SI7006-A20-IM Mouser 634-SI7006-A20-IM Standard Clock Oscillators 32,768kHz Oscillators 32,768kHz Q13MC30610003MC- Temperature Sensor MC306 32,768000KHZ MC306 32,768000KHZ MC306 32,768000KHZ | 1 | | | | | | | | | | | | | |
| USB Interface IC USBXpress - USB to UART Bridge OFN20 STMicroelectronics Common Mode Filter with ESD protection, USB 1 Silicon Labs STMicroelectro Tinics ECMF02-4CMX8 Farnell 2629721 IZC HUMIDITY AND TEMPERATURE SENSOR Standard Clock Oscillators 32,7688kHz USB Interface IC USBXpress - USB to UART Bridge OFN20 Tinics ECMF02-4CMX8 ECMF02-4CMX8 Farnell 2577277 Silicon Labs GOFN20 Mouser 20 STMicroelectro STMicroelectro Inics ECMF02-4CMX8 Farnell 2629721 2473658 Silicon Labs Si7006-A20-IM Mouser MC306 32,768000KHZ | U2 | | | | | 1 | Pvcom | W01 | Farnell | 2834998 | Pvcom | W01 | Mouser | 365-W01 |
| USBXpress - USB to UART Bridge QFN20 | F- | Ů | | | | | , | | | | , | | | |
| UART Bridge QFN20 | | | | | | | | | | | | CP2102N-A01- | | |
| STMicroelectronics Common Mode Filter with ESD protection, USB U4 compatible 12C HUMIDITY AND U5 TEMPERATURE SENSOR 1 Silicon Labs 1 Silicon | U3 | | | | | 1 | Silicon Labs | CP2102N-A01-GQFN20 | Farnell | 2577277 | | | | |
| Common Mode Filter with ESD protection, USB U4 compatible STMicroelectro compatible STMicroelectro nics ECMF02-4CMX8 Farnell 2629721 Silicon Labs SI7006-A20-IM Mouser IM Standard Clock Oscillators 32,768kHz OSTMICROELECTROELEC | | | | i | | 1 | | | 1 | | | | | |
| U4 compatible 1 nics ECMF02-4CMX8 Farnell 2629721 Compatible | 1 | | | | | | | | | | | | | |
| IZC HUMIDITY AND TEMPERATURE SENSOR I Silicon Labs SI7006-A20-IM Farnell Z473658 Silicon Labs SI7006-A20-IM Mouser IM Standard Clock Oscillators 32,768kHz O13MC30610003MC- MC306 32.768000KHZ | 1 | with ESD protection, USB | | | | | STMicroelectro | | | | | | | |
| U5 TEMPERATURE SENSOR 1 Silicon Labs SI7006-A20-IM Farnell 2473658 Silicon Labs SI7006-A20-IM Mouser IM Standard Clock Oscillators 32,768kHz O13MC30610003MC- O13MC30610003MC- MC306 32.768000KHZ MC306 32.768000KHZ MC306 32.768000KHZ | U4 | compatible | | L | | 1 | nics | ECMF02-4CMX8 | Farnell | 2629721 | <u> </u> | | | |
| Standard Clock Oscillators 32,768kHz Q13MC30610003MC- MC306 32.768000KHZ | | | | | | | | | | | | | | |
| Oscillators 32,768kHz Q13MC30610003MC- MC306 32.768000KHZ | U5 | | | | | 1 | Silicon Labs | SI7006-A20-IM | Farnell | 2473658 | Silicon Labs | SI7006-A20-IM | Mouser | IM |
| | 1 | | | I | |] | l | |] | | <u> </u> | | | г |
| | l | | | | | | L | | | | | | | |
| | X1 | 20ppm -40C +85C | | | | 1 | Epson | 30632.768KHZ12.5PF | Farnell | 1216208 | Epson l'iming | 12.5PF | Farnell | 1216208 |

