

| Révision : 25/02/2015<br>OM5577/A/B/C-210-00<br>CARTE : PN7120 NFC Controller SBC Kit<br>Customer : NXP<br>Done by ASCO_SR |          |                 | NXP Semiconducteurs<br>2, Esplanade Anton Philips<br>BP 2000 - COLOMBELLES<br>14906 CAEN CEDEX 9 |                           |                                                         |              |                  |
|----------------------------------------------------------------------------------------------------------------------------|----------|-----------------|--------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------|--------------|------------------|
| Item                                                                                                                       | Quantity | Reference       | Value                                                                                            | PCB Footprint             | Designation                                             | Manufacturer | REF.Manufacturer |
| 1                                                                                                                          | 4        | C1,C3,C7,C21    | 1uF                                                                                              | c0402                     | Capacitor, 6.3V, 20%, X5R                               | MURATA       |                  |
| 2                                                                                                                          | 1        | C2              | 4.7uF                                                                                            | c0402                     | Capacitor, 6.3V, X5R                                    | TDK          | C1005X5R0J475T   |
| 3                                                                                                                          | 3        | C6,C9,C22       | 100nF                                                                                            | c0402                     | Capacitor,CER2,0402,X7R,16V,10%                         | MURATA       |                  |
| 4                                                                                                                          | 1        | C8              | 470nF                                                                                            | c0402                     | Capacitor,CER2,0402,X5R,16V,10%                         |              |                  |
| 5                                                                                                                          | 1        | C10             | NC                                                                                               | c0402                     | !!!NOT CONNECTED !!!                                    |              |                  |
| 6                                                                                                                          | 4        | C11,C12,C15,C16 | 39pF/50V                                                                                         | C0603                     | Capacitor,CER2,0603,C0G,50V,5%                          |              |                  |
| 7                                                                                                                          | 2        | C13,C14         | 330pF                                                                                            | C0603                     | Capacitor,CER2,0603,C0G,50V,5%                          |              |                  |
| 8                                                                                                                          | 2        | C17,C18         | 12pF/50V                                                                                         | C0603                     | Capacitor,CER2,0603,C0G,50V,2%                          |              |                  |
| 9                                                                                                                          | 2        | C19,C20         | 1nF/16V                                                                                          | C0603                     | Capacitor,CER2,0603,X7R,16V,10%                         |              |                  |
| 10                                                                                                                         | 2        | C50,C51         | 82pF/50V                                                                                         | C0603                     | Capacitor,CER2,0603,C0G,50V,5%                          |              |                  |
| 11                                                                                                                         | 2        | C52,C53         | NC                                                                                               | C0603                     | !!!NOT CONNECTED !!!                                    |              |                  |
| 12                                                                                                                         | 2        | C54,C55         | 4.7pF/50V                                                                                        | C0603                     | Capacitor,CER2,0402,C0G,50V,2%                          |              |                  |
| 13                                                                                                                         | 2        | C56,C57         | 10pF/50V                                                                                         | c0402                     | Capacitor,CER2,0402,C0G,50V,2%                          | MURATA       |                  |
| 14                                                                                                                         | 1        | J1              | bar_2x13_FD_RASPBERRY                                                                            | bar_2x13_FD_spe_raspberry | Header, Double Row, pitch 2mm54, 2x23                   | SAMTEC       | ESQ-113-33-G-D   |
| 15                                                                                                                         | 1        | J8              | bar_2x23_MD_beaglebone_p8                                                                        | bar_2x23_spe_beaglebone   | Header, Double Row, pitch 2mm54, 2x23                   | SAMTEC       | HTSW-123-07-T-D  |
| 16                                                                                                                         | 1        | J9              | bar_2x23_MD_beaglebone_p9                                                                        | bar_2x23_spe_beaglebone   | Header, Double Row, pitch 2mm54, 2x23                   | SAMTEC       | HTSW-123-07-T-D  |
| 17                                                                                                                         | 2        | L1,L2           | 390nH                                                                                            | self_0603                 | Chip,inductor,SMD,5%,0603                               | TDK          | LQW18ANR39J00    |
| 18                                                                                                                         | 1        | L104            | Antenna                                                                                          | ANTENNA_4T_40x40          | ***PRINTED BOARD***                                     |              |                  |
| 19                                                                                                                         | 2        | R1,R2           | 2K4                                                                                              | R0603                     | Resistor,Package:0603,1%,1/16W                          |              |                  |
| 20                                                                                                                         | 1        | R23             | NC                                                                                               | 0402r                     | !!!NOT CONNECTED !!!                                    |              |                  |
| 21                                                                                                                         | 2        | R24,R32         | 100K                                                                                             | 0402r                     | Resistor,Package:0402,1%,1/16W                          |              |                  |
| 22                                                                                                                         | 2        | R53,R54         | NC                                                                                               | R0603                     | !!!NOT CONNECTED !!!                                    |              |                  |
| 23                                                                                                                         | 2        | R55,R56         | 1R5                                                                                              | R0603                     | Resistor,Package:0603,1%,1/16W                          |              |                  |
| 24                                                                                                                         | 2        | R73,R75         | OR                                                                                               | R0603                     | Resistor,Package:0603,1%,1/16W                          |              |                  |
| 25                                                                                                                         | 1        | SH1             | Shield_27x22mm                                                                                   | SHIELD_27X22              |                                                         | NXP          |                  |
| 26                                                                                                                         | 1        | TB1             | NC                                                                                               | bar_1x3_MD                | !!!NOT CONNECTED !!!                                    |              |                  |
| 27                                                                                                                         | 1        | TB2             | FORK                                                                                             | AGPS1-08-BCZ-1MM3         | Remove Header after soldering                           | ANTELEC      |                  |
| 28                                                                                                                         | 1        | TB3             | FORK                                                                                             | AGPS1-06-BCZ-1MM3         | Remove Header after soldering                           | ANTELEC      |                  |
| 29                                                                                                                         | 2        | TB4,TB9         | FORK                                                                                             | AGPS1-08-BSE              | Remove Header after soldering                           | ANTELEC      |                  |
| 30                                                                                                                         | 2        | TB5,TB8         | FORK                                                                                             | AGPS1-06-BSE              | Remove Header after soldering                           | ANTELEC      |                  |
| 31                                                                                                                         | 1        | TB10            | FORK                                                                                             | AGPS1-03-BCZ-1MM3         | Remove Header after soldering                           | ANTELEC      |                  |
| 32                                                                                                                         | 2        | TB11,TB12       | FORK                                                                                             | AGPS1-03-BSE              | Remove Header after soldering                           | ANTELEC      |                  |
| 33                                                                                                                         | 1        | U1              | PN7120                                                                                           | vfba49_050_sot1320-1      |                                                         |              |                  |
| 34                                                                                                                         | 1        | Y1              | NX2016AA_27.12Mhz                                                                                | NX2016AA                  |                                                         | NDK          |                  |
| 35                                                                                                                         | 1        | 1               | BUBBLE1                                                                                          | BUBBLE_DIAM8              | PN7120_NFC_Controller_Printed_Circuit_Board:OM5577      |              |                  |
| 36                                                                                                                         | 1        | 2               | BUBBLE2                                                                                          | BUBBLE_DIAM8              | BeagleBone_Interface_Printed_Circuit_Board:OM5577       |              |                  |
| 37                                                                                                                         | 1        | 3               | BUBBLE3                                                                                          | BUBBLE_DIAM8              | Raspberry Pi_Interface_Printed_Circuit_Board:OM5577     |              |                  |
| 38                                                                                                                         |          | 4               | BUBBLE4(x4)                                                                                      | BUBBLE_DIAM8              | SKIFFY:300_3180_000_38_Spacer_Nylon_Female/Female_M3x18 |              |                  |
| 39                                                                                                                         |          | 5               | BUBBLE5(x4)                                                                                      | BUBBLE_DIAM8              | Washer_Z_U_M3_Stainless_Steel                           |              |                  |
| 40                                                                                                                         |          | 6               | BUBBLE6(x4)                                                                                      | BUBBLE_DIAM8              | Screw_C_M3x6_Stainless_Steel                            |              |                  |