

mikroProg
USB 2.0 programmer - debugger



PORTA
RA0 RA1 RA2 RA3 RA4 RA5 RA6 RA7
GND VCC

PORTB
RB0 RB1 RB2 RB3 RB4 RB5 RB6 RB7
GND VCC

PORTC
RC0 RC1 RC2 RC3 RC4 RC5 RC6 RC7
GND VCC

PORTD
RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
GND VCC

PORTE
RE0 RE1 RE2 RE3
NC NC NC NC
GND VCC

PORTA
RA0 RA1 RA2 RA3 RA4 RA5 RA6 RA7
GND VCC

PORTB
RB0 RB1 RB2 RB3 RB4 RB5 RB6 RB7
GND VCC

PORTC
RC0 RC1 RC2 RC3 RC4 RC5 RC6 RC7
GND VCC

PORTD
RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
GND VCC

PORTE
RE0 RE1 RE2 RE3
NC NC NC NC
GND VCC

PORTF
RF0 RF1 RF2 RF3
NC NC NC NC
GND VCC

POWER SUPPLY

9-32V DC
7-23V AC

LINK

ACTIVE

DATA

MIKRO
PROG

RC7 RS-232
RB2 RS-232
RB1 PORTA
RA3 PORTA
RB5 USB
RC5 UART
RD7

DIS3 DIS2 DIS0

LED1

LED2

PORTA
RA0 RA1 RA2 RA3 RA4 RA5 RA6 RA7
GND VCC

PORTB
RB0 RB1 RB2 RB3 RB4 RB5 RB6 RB7
GND VCC

PORTC
RC0 RC1 RC2 RC3 RC4 RC5 RC6 RC7
GND VCC

PORTD
RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
GND VCC

PORTE
RE0 RE1 RE2 RE3
NC NC NC NC
GND VCC

PORTF
RF0 RF1 RF2 RF3
NC NC NC NC
GND VCC

PORTA
RA0 RA1 RA2 RA3 RA4 RA5 RA6 RA7
GND VCC

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GND VCC

PORTD
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GND VCC

PORTE
RE0 RE1 RE2 RE3
NC NC NC NC
GND VCC

PORTF
RF0 RF1 RF2 RF3
NC NC NC NC
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GND VCC

PORTB
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PORTD
RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
GND VCC

PORTE
RE0 RE1 RE2 RE3
NC NC NC NC
GND VCC

PORTF
RF0 RF1 RF2 RF3
NC NC NC NC
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GND VCC

PORTE
RE0 RE1 RE2 RE3
NC NC NC NC
GND VCC

PORTF
RF0 RF1 RF2 RF3
NC NC NC NC
GND VCC

MIKRO BUS

ANPA2 RC0/PM1
RB0/RE1 RB0/RE1
SB0/RE3 RC0/RY
SK0/RC3 RC0/RY
MB0/RC4 RC0/RY
V0/IR3 RC4/SDA
3.3V GND

RC0/PM1
RB1/RE2 RB1/RE2
SB1/RE4 RC1/RY
SK1/RC5 RC1/RY
MB1/RC6 RC1/RY
V1/IR4 RC4/SDA
3.3V GND

RC1/PM2
RB2/RE3 RB2/RE3
SB2/RE5 RC2/RY
SK2/RC7 RC2/RY
MB2/RC8 RC2/RY
V2/IR5 RC5/SDA
3.3V GND

RC2/PM3
RB3/RE4 RB3/RE4
SB3/RE6 RC3/RY
SK3/RC9 RC3/RY
MB3/RC10 RC3/RY
V3/IR6 RC6/SDA
3.3V GND

RC3/PM4
RB4/RE5 RB4/RE5
SB4/RE7 RC4/RY
SK4/RC11 RC4/RY
MB4/RC12 RC4/RY
V4/IR7 RC7/SDA
3.3V GND

RC4/PM5
RB5/RE6 RB5/RE6
SB5/RE8 RC5/RY
SK5/RC13 RC5/RY
MB5/RC14 RC5/RY
V5/IR8 RC8/SDA
3.3V GND

RC5/PM6
RB6/RE7 RB6/RE7
SB6/RE9 RC6/RY
SK6/RC15 RC6/RY
MB6/RC16 RC6/RY
V6/IR9 RC9/SDA
3.3V GND

RC6/PM7
RB7/RE8 RB7/RE8
SB7/RE10 RC7/RY
SK7/RC17 RC7/RY
MB7/RC18 RC7/RY
V7/IR10 RC10/SDA
3.3V GND

RC7/PM8
RB8/RE9 RB8/RE9
SB8/RE11 RC8/RY
SK8/RC19 RC8/RY
MB8/RC20 RC8/RY
V8/IR11 RC11/SDA
3.3V GND

RC8/PM9
RB9/RE10 RB9/RE10
SB9/RE12 RC9/RY
SK9/RC21 RC9/RY
MB9/RC22 RC9/RY
V9/IR12 RC12/SDA
3.3V GND

RC9/PM10
RB10/RE11 RB10/RE11
SB10/RE13 RC10/RY
SK10/RC23 RC10/RY
MB10/RC24 RC10/RY
V10/IR13 RC13/SDA
3.3V GND

RC10/PM11
RB11/RE12 RB11/RE12
SB11/RE14 RC11/RY
SK11/RC25 RC11/RY
MB11/RC26 RC11/RY
V11/IR14 RC14/SDA
3.3V GND

RC11/PM12
RB12/RE13 RB12/RE13
SB12/RE15 RC12/RY
SK12/RC27 RC12/RY
MB12/RC28 RC12/RY
V12/IR15 RC15/SDA
3.3V GND

RC12/PM13
RB13/RE14 RB13/RE14
SB13/RE16 RC13/RY
SK13/RC29 RC13/RY
MB13/RC30 RC13/RY
V13/IR16 RC16/SDA
3.3V GND

RC13/PM14
RB14/RE15 RB14/RE15
SB14/RE17 RC14/RY
SK14/RC31 RC14/RY
MB14/RC32 RC14/RY
V14/IR17 RC17/SDA
3.3V GND

RC14/PM15
RB15/RE16 RB15/RE16
SB15/RE18 RC15/RY
SK15/RC33 RC15/RY
MB15/RC34 RC15/RY
V15/IR18 RC18/SDA
3.3V GND

RC15/PM16
RB16/RE17 RB16/RE17
SB16/RE19 RC16/RY
SK16/RC35 RC16/RY
MB16/RC36 RC16/RY
V16/IR19 RC19/SDA
3.3V GND

RC16/PM17
RB17/RE18 RB17/RE18
SB17/RE20 RC17/RY
SK17/RC37 RC17/RY
MB17/RC38 RC17/RY
V17/IR20 RC20/SDA
3.3V GND

RC17/PM18
RB18/RE19 RB18/RE19
SB18/RE21 RC18/RY
SK18/RC39 RC18/RY
MB18/RC40 RC18/RY
V18/IR21 RC21/SDA
3.3V GND

RC18/PM19
RB19/RE20 RB19/RE20
SB19/RE22 RC19/RY
SK19/RC41 RC19/RY
MB19/RC42 RC19/RY
V19/IR22 RC22/SDA
3.3V GND

RC19/PM20
RB20/RE21 RB20/RE21
SB20/RE23 RC20/RY
SK20/RC43 RC20/RY
MB20/RC44 RC20/RY
V20/IR23 RC23/SDA
3.3V GND

RC20/PM21
RB21/RE22 RB21/RE22
SB21/RE24 RC21/RY
SK21/RC45 RC21/RY
MB21/RC46 RC21/RY
V21/IR24 RC24/SDA
3.3V GND

RC21/PM22
RB22/RE23 RB22/RE23
SB22/RE25 RC22/RY
SK22/RC47 RC22/RY
MB22/RC48 RC22/RY
V22/IR25 RC25/SDA
3.3V GND

RC22/PM23
RB23/RE24 RB23/RE24
SB23/RE26 RC23/RY
SK23/RC49 RC23/RY
MB23/RC50 RC23/RY
V23/IR26 RC26/SDA
3.3V GND

RC23/PM24
RB24/RE25 RB24/RE25
SB24/RE27 RC24/RY
SK24/RC51 RC24/RY
MB24/RC52 RC24/RY
V24/IR27 RC27/SDA
3.3V GND

RC24/PM25
RB25/RE26 RB25/RE26
SB25/RE28 RC25/RY
SK25/RC53 RC25/RY
MB25/RC54 RC25/RY
V25/IR28 RC28/SDA
3.3V GND

RC25/PM26
RB26/RE27 RB26/RE27
SB26/RE29 RC26/RY
SK26/RC55 RC26/RY
MB26/RC56 RC26/RY
V26/IR29 RC29/SDA
3.3V GND

RC26/PM27
RB27/RE28 RB27/RE28
SB27/RE30 RC27/RY
SK27/RC57 RC27/RY
MB27/RC58 RC27/RY
V27/IR30 RC30/SDA
3.3V GND

RC27/PM28
RB28/RE29 RB28/RE29
SB28/RE31 RC28/RY
SK28/RC59 RC28/RY
MB28/RC60 RC28/RY
V28/IR31 RC31/SDA
3.3V GND

RC28/PM29
RB29/RE30 RB29/RE30
SB29/RE32 RC29/RY
SK29/RC61 RC29/RY
MB29/RC62 RC29/RY
V29/IR32 RC32/SDA
3.3V GND

RC29/PM30
RB30/RE31 RB30/RE31
SB30/RE33 RC30/RY
SK30/RC63 RC30/RY
MB30/RC64 RC30/RY
V30/IR33 RC33/SDA
3.3V GND

RC30/PM31
RB31/RE32 RB31/RE32
SB31/RE34 RC31/RY
SK31/RC65 RC31/RY
MB31/RC66 RC31/RY
V31/IR34 RC34/SDA
3.3V GND

RC31/PM32
RB32/RE33 RB32/RE33
SB32/RE35 RC32/RY
SK32/RC67 RC32/RY
MB32/RC68 RC32/RY
V32/IR35 RC35/SDA
3.3V GND

RC32/PM33
RB33/RE34 RB33/RE34
SB33/RE36 RC33/RY
SK33/RC69 RC33/RY
MB33/RC70 RC33/RY
V33/IR36 RC36/SDA
3.3V GND

RC33/PM34
RB34/RE35 RB34/RE35
SB34/RE37 RC34/RY
SK34/RC71 RC34/RY
MB34/RC72 RC34/RY
V34/IR37 RC37/SDA
3.3V GND

RC34/PM35
RB35/RE36 RB35/RE36
SB35/RE38 RC35/RY
SK35/RC73 RC35/RY
MB35/RC74 RC35/RY
V35/IR38 RC38/SDA
3.3V GND

RC35/PM36
RB36/RE37 RB36/RE37
SB36/RE39 RC36/RY
SK36/RC75 RC36/RY
MB36/RC76 RC36/RY
V36/IR39 RC39/SDA
3.3V GND

RC36/PM37
RB37/RE38 RB37/RE38
SB37/RE40 RC37/RY
SK37/RC77 RC37/RY
MB37/RC78 RC37/RY
V37/IR40 RC40/SDA
3.3V GND

RC37/PM38
RB38/RE39 RB38/RE39
SB38/RE41 RC38/RY
SK38/RC79 RC38/RY
MB38/RC80 RC38/RY
V38/IR41 RC41/SDA
3.3V GND

RC38/PM39
RB39/RE40 RB39/RE40
SB39/RE42 RC39/RY
SK39/RC81 RC39/RY
MB39/RC82 RC39/RY
V39/IR42 RC42/SDA
3.3V GND

RC39/PM40
RB40/RE41 RB40/RE41
SB40/RE43 RC40/RY
SK40/RC83 RC40/RY
MB40/RC84 RC40/RY
V40/IR43 RC43/SDA
3.3V GND

RC40/PM41
RB41/RE42 RB41/RE42
SB41/RE44 RC41/RY
SK41/RC85 RC41/RY
MB41/RC86 RC41/RY
V41/IR44 RC44/SDA
3.3V GND

RC41/PM42
RB42/RE43 RB42/RE43
SB42/RE45 RC42/RY
SK42/RC87 RC42/RY
MB42/RC88 RC42/RY
V42/IR45 RC45/SDA
3.3V GND

RC42/PM43
RB43/RE44 RB43/RE44
SB43/RE46 RC43/RY
SK43/RC89 RC43/RY
MB43/RC90 RC43/RY
V43/IR46 RC46/SDA
3.3V GND

RC43/PM44
RB44/RE45 RB44/RE45
SB44/RE47 RC44/RY
SK44/RC91 RC44/RY
MB44/RC92 RC44/RY
V44/IR47 RC47/SDA
3.3V GND

RC44/PM45
RB45/RE46 RB45/RE46
SB45/RE48 RC45/RY
SK45/RC93 RC45/RY
MB45/RC94 RC45/RY
V45/IR48 RC48/SDA
3.3V GND

RC45/PM46
RB46/RE47 RB46/RE47
SB46/RE49 RC46/RY
SK46/RC95 RC46/RY
MB46/RC96 RC46/RY
V46/IR49 RC49/SDA
3.3V GND

RC46/PM47
RB47/RE48 RB47/RE48
SB47/RE50 RC47/RY
SK47/RC97 RC47/RY
MB47/RC98 RC47/RY
V47/IR50 RC50/SDA
3.3V GND

RC47/PM48
RB48/RE49 RB48/RE49
SB48/RE51 RC48/RY
SK48/RC99 RC48/RY
MB48/RC100 RC48/RY
V48/IR51 RC51/SDA
3.3V GND

RC48/PM49
RB49/RE50 RB49/RE50
SB49/RE52 RC49/RY
SK49/RC101 RC49/RY
MB49/RC102 RC49/RY
V49/IR52 RC52/SDA
3.3V GND

RC49/PM50
RB50/RE51 RB50/RE51
SB50/RE53 RC50/RY
SK50/RC103 RC50/RY
MB50/RC104 RC50/RY
V50/IR53 RC53/SDA
3.3V GND

RC50/PM51
RB51/RE52 RB51/RE52
SB51/RE54 RC51/RY
SK51/RC105 RC51/RY
MB51/RC106 RC51/RY
V51/IR54 RC54/SDA
3.3V GND

RC51/PM52
RB52/RE53 RB52/RE53
SB52/RE55 RC52/RY
SK52/RC107 RC52/RY
MB52/RC108 RC52/RY
V52/IR55 RC55/SDA
3.3V GND

RC52/PM53
RB53/RE54 RB53/RE54
SB53/RE56 RC53/RY
SK53/RC109 RC53/RY
MB53/RC110 RC53/RY
V53/IR56 RC56/SDA
3.3V GND

RC53/PM54
RB54/RE55 RB54/RE55
SB54/RE57 RC54/RY
SK54/RC111 RC54/RY
MB54/RC112 RC54/RY
V54/IR57 RC57/SDA
3.3V GND

RC54/PM55
RB55/RE56 RB55/RE56
SB55/RE58 RC55/RY
SK55/RC113 RC55/RY
MB55/RC114 RC55/RY
V55/IR58 RC58/SDA
3.3V GND

RC55/PM56
RB56/RE57 RB56/RE57
SB56/RE59 RC56/RY
SK56/RC115 RC56/RY
MB56/RC116 RC56/RY
V56/IR59 RC59/SDA
3.3V GND

RC56/PM57
RB57/RE58 RB57/RE58
SB57/RE60 RC57/RY
SK57/RC117 RC57/RY
MB57/RC118 RC57/RY
V57/IR60 RC60/SDA
3.3V GND

RC57/PM58
RB58/RE59 RB58/RE59
SB58/RE61 RC58/RY
SK58/RC119 RC58/RY
MB58/RC120 RC58/RY
V58/IR61 RC61/SDA
3.3V GND

RC58/PM59
RB59/RE60 RB59/RE60
SB59/RE62 RC59/RY
SK59/RC121 RC59/RY
MB59/RC122 RC59/RY
V59/IR62 RC62/SDA
3.3V GND

RC59/PM60
RB60/RE61 RB60/RE61
SB60/RE63 RC60/RY
SK60/RC123 RC60/RY
MB60/RC124 RC60/RY
V60/IR63 RC63/SDA
3.3V GND

RC60/PM61
RB61/RE62 RB61/RE62
SB61/RE64 RC61/RY
SK61/RC125 RC61/RY
MB61/RC126 RC61/RY
V61/IR64 RC64/SDA
3.3V GND

RC61/PM62
RB62/RE63 RB62/RE63
SB62/RE65 RC62/RY
SK62/RC127 RC62/RY
MB62/RC128 RC62/RY
V62/IR65 RC65/SDA
3.3V GND

RC62/PM63
RB63/RE64 RB63/RE64
SB63/RE66 RC63/RY
SK63/RC129 RC63/RY
MB63/RC130 RC63/RY
V63/IR66 RC66/SDA
3.3V GND

RC63/PM64
RB64/RE65 RB64/RE65
SB64/RE67 RC64/RY
SK64/RC131 RC64/RY
MB64/RC132 RC64/RY
V64/IR67 RC67/SDA
3.3V GND

RC64/PM65
RB65/RE66 RB65/RE66
SB65/RE68 RC65/RY
SK65/RC133 RC65/RY
MB65/RC134 RC65/RY
V65/IR68 RC68/SDA
3.3V GND

RC65/PM66
RB66/RE67 RB66/RE67
SB66/RE69 RC66/RY
SK66/RC135 RC66/RY
MB66/RC136 RC66/RY
V66/IR69 RC69/SDA
3.3V GND

RC66/PM67
RB67/RE68 RB67/RE68
SB67/RE70 RC67/RY
SK67/RC137 RC67/RY
MB67/RC138 RC67/RY
V67/IR70 RC70/SDA
3.3V GND

RC67/PM68
RB68/RE69 RB68/RE69
SB68/RE71 RC68/RY
SK68/RC139 RC68/RY
MB68/RC140 RC68/RY
V68/IR71 RC71/SDA
3.3V GND

RC68/PM69
RB69/RE70 RB69/RE70
SB69/RE72 RC69/RY
SK69/RC141 RC69/RY
MB69/RC142 RC69/RY
V69/IR72 RC72/SDA
3.3V GND

RC69/PM70
RB70/RE71 RB70/RE71
SB70/RE73 RC70/RY
SK70/RC143 RC70/RY
MB70/RC144 RC70/RY
V70/IR73 RC73/SDA
3.3V GND

RC70/PM71
RB71/RE72 RB71/RE72
SB71/RE74 RC71/RY
SK71/RC145 RC71/RY
MB71/RC146 RC71/RY
V71/IR74 RC74/SDA
3.3V GND

RC71/PM72
RB72/RE73 RB72/RE73
SB72/RE75 RC72/RY
SK72/RC147 RC72/RY
MB72/RC148 RC72/RY
V72/IR75 RC75/SDA
3.3V GND

RC72/PM73
RB73/RE74 RB73/RE74
SB73/RE76 RC73/RY
SK73/RC149 RC73/RY
MB73/RC150 RC73/RY
V73/IR76 RC76/SDA
3.3V GND

RC73/PM74
RB74/RE75 RB74/RE75
SB74/RE77 RC74/RY
SK74/RC151 RC74/RY
MB74/RC152 RC74/RY
V74/IR77 RC77/SDA
3.3V GND

RC74/PM75
RB75/RE76 RB75/RE76
SB75/RE78 RC75/RY
SK75/RC153 RC75/RY
MB75/RC154 RC75/RY
V75/IR78 RC78/SDA
3.3V GND

RC75/PM76
RB76/RE77 RB76/RE77
SB76/RE79 RC76/RY
SK76/RC155 RC76/RY
MB76/RC156 RC76/RY
V76/IR79 RC79/SDA
3.3V GND

RC76/PM77
RB77/RE78 RB77/RE78
SB77/RE80 RC77/RY
SK77/RC157 RC77/RY
MB77/RC158 RC77/RY
V77/IR80 RC80/SDA
3.3V GND

RC77/PM78
RB78/RE79 RB78/RE79
SB78/RE81 RC78/RY
SK78/RC159 RC78/RY
MB78/RC160 RC78/RY
V78/IR81 RC81/SDA
3.3V GND

RC78/PM79
RB79/RE80 RB79/RE80
SB79/RE82 RC79/RY
SK79/RC161 RC79/RY
MB79/RC162 RC79/RY
V79/IR82 RC82/SDA
3.3V GND

RC79/PM80
RB80/RE81 RB80/RE81
SB80/RE83 RC80/RY
SK80/RC163 RC80/RY
MB80/RC164 RC80/RY
V80/IR83 RC83/SDA
3.3V GND

RC80/PM81
RB81/RE82 RB81/RE82
SB81/RE84 RC81/RY
SK81/RC165 RC81/RY
MB81/RC166 RC81/RY
V81/IR84 RC84/SDA
3.3V GND

RC81/PM82
RB82/RE83 RB82/RE83
SB82/RE85 RC82/RY
SK82/RC167 RC82/RY
MB82/RC168 RC82/RY
V82/IR85 RC85/SDA
3.3V GND

RC82/PM83
RB83/RE84 RB83/RE84
SB83/RE86 RC83/RY
SK83/RC169 RC83/RY
MB83/RC170 RC83/RY
V83/IR86 RC86/SDA
3.3V GND

RC83/PM84
RB84/RE85 RB84/RE85
SB84/RE87 RC84/RY
SK84/RC171 RC84/RY
MB84/RC172 RC84/RY
V84/IR87 RC87/SDA
3.3V GND

RC84/PM85
RB85/RE86 RB85/RE86
SB85/RE88 RC85/RY
SK85/RC173 RC85/RY
MB85/RC174 RC85/RY
V85/IR88 RC88/SDA
3.3V GND

RC85/PM86
RB86/RE87 RB86/RE87
SB86/RE89 RC86/RY
SK86/RC175 RC86/RY
MB86/RC176 RC86/RY
V86/IR89 RC89/SDA
3.3V GND

RC86/PM87
RB87/RE88 RB87/RE88
SB87/RE90 RC87/RY
SK87/RC177 RC87/RY
MB87/RC178 RC87/RY
V87/IR90 RC90/SDA
3.3V GND

RC87/PM88
RB88/RE89 RB88/RE89
SB88/RE91 RC88/RY
SK88/RC179 RC88/RY
MB88/RC180 RC88/RY
V88/IR91 RC91/SDA
3.3V GND

RC88/PM89
RB89/RE90 RB89/RE90
SB89/RE92 RC89/RY
SK89/RC181 RC89/RY
MB89/RC182 RC89/RY
V89/IR92 RC92/SDA
3.3V GND

RC89/PM90
RB90/RE91 RB90/RE91
SB90/RE93 RC90/RY
SK90/RC183 RC90/RY
MB90/RC184 RC90/RY
V90/IR93 RC93/SDA
3.3V GND

RC90/PM91
RB91/RE92 RB91/RE92
SB91/RE94 RC91/RY
SK91/RC185 RC91/RY
MB91/RC186 RC91/RY
V91/IR94 RC94/SDA
3.3V GND

RC91/PM92
RB92/RE93 RB92/RE93
SB92/RE95 RC92/RY
SK92/RC187 RC92/RY
MB92/RC188 RC92/RY
V92/IR95 RC95/SDA
3.3V GND

RC92/PM93
RB93/RE94 RB93/RE94
SB93/RE96 RC93/RY
SK93/RC189 RC93/RY
MB93/RC190 RC93/RY
V93/IR96 RC96/SDA
3.3V GND

RC93/PM94
RB94/RE95 RB94/RE95
SB94/RE97 RC94/RY
SK94/RC191 RC94/RY
MB94/RC192 RC94/RY
V94/IR97 RC97/SDA
3.3V GND

RC94/PM95
RB95/RE96 RB95/RE96
SB95/RE98 RC95/RY
SK95/RC193 RC95/RY
MB95/RC194