| Dedicated Pin | 160-Pin PQFP (1), (2) | 192-Pin PGA (2) | 208-Pin RQFP/PQFP (3) |
|---|---|---|---|
| INPUT/GCLK1 | 139 | P9 | 184 |
| INPUT/GCLRn | 141 | R9 | 182 |
| INPUT/OE1 | 140 | T9 | 183 |
| INPUT/OE2/GCLK2 | 142 | U9 | 181 |
| TDI (4) | 146 | U10 | 176 |
| TMS (4) | 23 | H15 | 127 |
| TCK (4) | 98 | H3 | 30 |
| TDO (4) | 135 | U8 | 189 |
| GND | 3, 18, 32, 47, 57, 64, 66, 81, 96, 111, 126, 138, 143, 148 | C7, C13, D4, D8, D10, G14, H4, K14, L4, P8, P10, P15, R4, R11 | 14, 32, 50, 72, 75, 82, 94, 116, 134, 152, 174, 180, 185, 200 |
| VCCINT (5.0 V only) | 56, 65, 137, 144 | D7, D11, P7, P11 | 74, 83, 179, 186 |
| VCCIO (3.3 V or 5.0 V) | 10, 25, 40, 55, 74, 89, 103, 118, 133, 155 | C5, C11, D14, G4, H14, K4, L14, P3, R5, R14 | 5, 23, 41, 63, 85, 107, 125, 143, 165, 191 |
| No Connect (N.C.) | – | – | 1, 2, 51, 52, 53, 54, 103, 104, 105, 106, 155, 156, 157, 158, 207, 208. |
| Total User I/O Pins (5) | 132 | 164 | 164 |

| LAB | MC | 160-Pin PQFP (1), (2) | 192-Pin PGA (2) | 208-Pin RQFP/PQFP |
|---|---|---|---|---|
| A | 1 | 2 | U17 | 153 |
| A | 2 | – | – | – |
| A | 3 | 1 | R16 | 154 |
| A | 4 | – | – | – |
| A | 5 | 160 | P14 | 159 |
| A | 6 | – | U16 | 160 |
| A | 7 | – | – | – |
| A | 8 | 159 | R15 | 161 |
| A | 9 | 158 | U15 | 162 |
| A | 10 | – | – | – |
| A | 11 | 157 | T15 | 163 |
| A | 12 | – | – | – |
| A | 13 | 156 | U14 | 164 |
| A | 14 | – | U13 | 166 |
| A | 15 | – | – | – |
| A | 16 | 154 | T14 | 167 |
| B | 17 | 12 | N17 | 141 |
| B | 18 | – | – | – |
| B | 19 | 11 | M16 | 142 |
| B | 20 | – | – | – |
| B | 21 | 9 | M15 | 144 |
| B | 22 | – | P17 | 145 |
| B | 23 | – | – | – |
| B | 24 | 8 | N16 | 146 |
| B | 25 | 7 | R17 | 147 |
| B | 26 | – | – | – |
| B | 27 | 6 | P16 | 148 |
| B | 28 | – | – | – |
| B | 29 | 5 | T17 | 149 |
| B | 30 | – | N15 | 150 |
| B | 31 | – | – | – |
| B | 32 | 4 | T16 | 151 |
| C | 33 | 39 | B17 | 108 |
| C | 34 | – | – | – |
| C | 35 | 38 | C15 | 109 |
| C | 36 | – | – | – |
| C | 37 | 37 | C17 | 110 |
| C | 38 | – | C16 | 111 |
| C | 39 | – | – | – |
| C | 40 | 36 | D17 | 112 |
| C | 41 | 35 | D15 | 113 |
| C | 42 | – | – | – |
| C | 43 | 34 | E17 | 114 |
| C | 44 | – | – | – |
| C | 45 | 33 | D16 | 115 |
| C | 46 | – | E15 | 117 |
| C | 47 | – | – | – |
| C | 48 | 31 | F16 | 118 |

| LAB | MC | 160-Pin PQFP (1), (2) | 192-Pin PGA (2) | 208-Pin RQFP/PQFP |
|---|---|---|---|---|
| D | 49 | 49 | A14 | 92 |
| D | 50 | – | – | – |
| D | 51 | 48 | B12 | 93 |
| D | 52 | – | – | – |
| D | 53 | 46 | B13 | 95 |
| D | 54 | – | A15 | 96 |
| D | 55 | – | – | – |
| D | 56 | 45 | B14 | 97 |
| D | 57 | 44 | A16 | 98 |
| D | 58 | – | – | – |
| D | 59 | 43 | C14 | 99 |
| D | 60 | – | – | – |
| D | 61 | 42 | B16 | 100 |
| D | 62 | – | B15 | 101 |
| D | 63 | – | – | – |
| D | 64 | 41 | A17 | 102 |
| E | 65 | 153 | U12 | 168 |
| E | 66 | – | – | – |
| E | 67 | 152 | R13 | 169 |
| E | 68 | – | – | – |
| E | 69 | 151 | U11 | 170 |
| E | 70 | – | T13 | 171 |
| E | 71 | – | – | – |
| E | 72 | 150 | T11 | 172 |
| E | 73 | 149 | T12 | 173 |
| E | 74 | – | – | – |
| E | 75 | 147 | R12 | 175 |
| E | 76 | – | – | – |
| E | 77 | 146 (4) | U10 (4) | 176 (4) |
| E | 78 | – | R10 | 177 |
| E | 79 | – | – | – |
| E | 80 | 145 | T10 | 178 |
| F | 81 | 21 | J16 | 130 |
| F | 82 | – | – | – |
| F | 83 | 20 | J15 | 131 |
| F | 84 | – | – | – |
| F | 85 | 19 | K17 | 132 |
| F | 86 | – | J14 | 133 |
| F | 87 | – | – | – |
| F | 88 | 17 | K16 | 135 |
| F | 89 | 16 | K15 | 136 |
| F | 90 | – | – | – |
| F | 91 | 15 | L17 | 137 |
| F | 92 | – | – | – |
| F | 93 | 14 | L16 | 138 |
| F | 94 | – | M17 | 139 |
| F | 95 | – | – | – |
| F | 96 | 13 | L15 | 140 |

| LAB | MC | 160-Pin PQFP (1), (2) | 192-Pin PGA (2) | 208-Pin RQFP/PQFP |
|---|---|---|---|---|
| G | 97 | 30 | E16 | 119 |
| G | 98 | – | – | – |
| G | 99 | 29 | F17 | 120 |
| G | 100 | – | – | – |
| G | 101 | 28 | F15 | 121 |
| G | 102 | – | G16 | 122 |
| G | 103 | – | – | – |
| G | 104 | 27 | G15 | 123 |
| G | 105 | 26 | G17 | 124 |
| G | 106 | – | – | – |
| G | 107 | 24 | H17 | 126 |
| G | 108 | – | – | – |
| G | 109 | 23 (4) | H15 (4) | 127 (4) |
| G | 110 | – | J17 | 128 |
| G | 111 | – | – | – |
| G | 112 | 22 | H16 | 129 |
| H | 113 | 60 | C9 | 79 |
| H | 114 | – | – | – |
| H | 115 | 59 | D9 | 80 |
| H | 116 | – | – | – |
| H | 117 | 58 | C10 | 81 |
| H | 118 | – | A10 | 84 |
| H | 119 | – | – | – |
| H | 120 | 54 | A11 | 86 |
| H | 121 | 53 | B10 | 87 |
| H | 122 | – | – | – |
| H | 123 | 52 | A12 | 88 |
| H | 124 | – | – | – |
| H | 125 | 51 | B11 | 89 |
| H | 126 | – | A13 | 90 |
| H | 127 | – | – | – |
| H | 128 | 50 | C12 | 91 |
| I | 129 | 128 | U6 | 197 |
| I | 130 | – | – | – |
| I | 131 | 129 | T5 | 196 |
| I | 132 | – | – | – |
| I | 133 | 130 | U7 | 195 |
| I | 134 | – | T6 | 194 |
| I | 135 | – | – | – |
| I | 136 | 131 | T7 | 193 |
| I | 137 | 132 | R6 | 192 |
| I | 138 | – | – | – |
| I | 139 | 134 | R7 | 190 |
| I | 140 | – | – | – |
| I | 141 | 135 (4) | U8 (4) | 189 (4) |
| I | 142 | – | R8 | 188 |
| I | 143 | – | – | – |
| I | 144 | 136 | T8 | 187 |

| LAB | MC | 160-Pin PQFP (1), (2) | 192-Pin PGA (2) | 208-Pin RQFP/PQFP |
|---|---|---|---|---|
| J | 145 | 100 | J2 | 27 |
| J | 146 | – | – | – |
| J | 147 | 101 | J3 | 26 |
| J | 148 | – | – | – |
| J | 149 | 102 | K1 | 25 |
| J | 150 | – | J4 | 24 |
| J | 151 | – | – | – |
| J | 152 | 104 | K2 | 22 |
| J | 153 | 105 | K3 | 21 |
| J | 154 | – | – | – |
| J | 155 | 106 | L1 | 20 |
| J | 156 | – | – | – |
| J | 157 | 107 | L2 | 19 |
| J | 158 | – | M1 | 18 |
| J | 159 | – | – | – |
| J | 160 | 108 | L3 | 17 |
| K | 161 | 91 | F3 | 38 |
| K | 162 | – | – | – |
| K | 163 | 92 | F1 | 37 |
| K | 164 | – | – | – |
| K | 165 | 93 | E2 | 36 |
| K | 166 | – | G2 | 35 |
| K | 167 | – | – | – |
| K | 168 | 94 | G3 | 34 |
| K | 169 | 95 | G1 | 33 |
| K | 170 | – | – | – |
| K | 171 | 97 | H1 | 31 |
| K | 172 | – | – | – |
| K | 173 | 98 (4) | H3 (4) | 30 (4) |
| K | 174 | – | J1 | 29 |
| K | 175 | – | – | – |
| K | 176 | 99 | H2 | 28 |
| L | 177 | 61 | B9 | 78 |
| L | 178 | – | – | – |
| L | 179 | 62 | C8 | 77 |
| L | 180 | – | – | – |
| L | 181 | 63 | A9 | 76 |
| L | 182 | – | A8 | 73 |
| L | 183 | – | – | – |
| L | 184 | 67 | A7 | 71 |
| L | 185 | 68 | B8 | 70 |
| L | 186 | – | – | – |
| L | 187 | 69 | A6 | 69 |
| L | 188 | – | – | – |
| L | 189 | 70 | B7 | 68 |
| L | 190 | – | A5 | 67 |
| L | 191 | – | – | – |
| L | 192 | 71 | C6 | 66 |

| LAB | MC | 160-Pin PQFP (1), (2) | 192-Pin PGA (2) | 208-Pin RQFP/PQFP |
|---|---|---|---|---|
| M | 193 | 119 | U1 | 4 |
| M | 194 | – | – | – |
| M | 195 | 120 | R2 | 3 |
| M | 196 | – | – | – |
| M | 197 | 121 | R3 | 206 |
| M | 198 | – | U2 | 205 |
| M | 199 | – | – | – |
| M | 200 | 122 | P4 | 204 |
| M | 201 | 123 | U3 | 203 |
| M | 202 | – | – | – |
| M | 203 | 124 | T3 | 202 |
| M | 204 | – | – | – |
| M | 205 | 125 | U4 | 201 |
| M | 206 | – | U5 | 199 |
| M | 207 | – | – | – |
| M | 208 | 127 | T4 | 198 |
| N | 209 | 109 | N1 | 16 |
| N | 210 | – | – | – |
| N | 211 | 110 | M2 | 15 |
| N | 212 | – | – | – |
| N | 213 | 112 | M3 | 13 |
| N | 214 | – | P1 | 12 |
| N | 215 | – | – | – |
| N | 216 | 113 | N2 | 11 |
| N | 217 | 114 | R1 | 10 |
| N | 218 | – | – | – |
| N | 219 | 115 | P2 | 9 |
| N | 220 | – | – | – |
| N | 221 | 116 | T1 | 8 |
| N | 222 | – | N3 | 7 |
| N | 223 | – | – | – |
| N | 224 | 117 | T2 | 6 |
| O | 225 | 82 | B1 | 49 |
| O | 226 | – | – | – |
| O | 227 | 83 | C3 | 48 |
| O | 228 | – | – | – |
| O | 229 | 84 | C1 | 47 |
| O | 230 | – | D3 | 46 |
| O | 231 | – | – | – |
| O | 232 | 85 | D1 | 45 |
| O | 233 | 86 | C2 | 44 |
| O | 234 | – | – | – |
| O | 235 | 87 | E1 | 43 |
| O | 236 | – | – | – |
| O | 237 | 88 | E3 | 42 |
| O | 238 | – | D2 | 40 |
| O | 239 | – | – | – |
| O | 240 | 90 | F2 | 39 |

| LAB | MC | 160-Pin PQFP (1), (2) | 192-Pin PGA (2) | 208-Pin RQFP/PQFP |
|---|---|---|---|---|
| P | 241 | 72 | A4 | 65 |
| P | 242 | – | – | – |
| P | 243 | 73 | B6 | 64 |
| P | 244 | – | – | – |
| P | 245 | 75 | B5 | 62 |
| P | 246 | – | A3 | 61 |
| P | 247 | – | – | – |
| P | 248 | 76 | B4 | 60 |
| P | 249 | 77 | A2 | 59 |
| P | 250 | – | – | – |
| P | 251 | 78 | C4 | 58 |
| P | 252 | – | – | – |
| P | 253 | 79 | B2 | 57 |
| P | 254 | – | B3 | 56 |
| P | 255 | – | – | – |
| P | 256 | 80 | A1 | 55 |

Notes:

(1) A complete thermal analysis should be performed before committing a design to this device package. See the *Operating Requirements for Altera Devices Data Sheet* for more information.
(2) EPM7256S devices is not available in the 160-pin PQFP package.
(3) EPM7256E devices are not available in the 208-pin RQFP/PQFP packages.
(4) This JTAG pin applies to MAX 7000S devices only and this pin may function as either a JTAG port or a user I/O pin. If the device is configured to use the JTAG ports for ISP, this pin is not available as a user I/O pin.
(5) The user I/O pin count includes dedicated input pins and all I/O pins.