|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Binary Input** | | | | |  | **Binary Output** | | | | | | | | | | **Output Hex** |
|  | **A3** | | **A2** | **A1** | **A0** | **Display** | | **idx 6** | **idx 5** | **idx 4** | | **idx 3** | **idx 2** | **idx 1** | | **idx 0** |  | |
| **Hex** | **A** | | **B** | **C** | **D** | **Pattern** | | **g** | **f** | **e** | | **d** | **c** | **b** | | **a** | **0x\_\_** | |
| 0 | 0 | | 0 | 0 | 0 | Display7Seg_0 | | 0 | 1 | 1 | | 1 | 1 | 1 | | 1 | 3F | |
| 1 | 0 | | 0 | 0 | 1 | Display7Seg_1 | | 0 | 0 | 0 | | 0 | 1 | 1 | | 0 | 06 | |
| 2 | 0 | | 0 | 1 | 0 | Display7Seg_2 | | 1 | 0 | 1 | | 1 | 0 | 1 | | 1 | 5B | |
| 3 | 0 | | 0 | 1 | 1 | Display7Seg_3 | | 1 | 0 | 0 | | 1 | 1 | 1 | | 1 | 4F | |
| 4 | 0 | | 1 | 0 | 0 | Display7Seg_4 | | 1 | 1 | 0 | | 0 | 1 | 1 | | 0 | 66 | |
| 5 | 0 | | 1 | 0 | 1 | Display7Seg_5 | | 1 | 1 | 0 | | 1 | 1 | 0 | | 1 | 6D | |
| 6 | 0 | | 1 | 1 | 0 | Display7Seg_6 | | 1 | 1 | 1 | | 1 | 1 | 0 | | 1 | 7D | |
| 7 | 0 | | 1 | 1 | 1 | Display7Seg_7 | | 0 | 0 | 0 | | 0 | 1 | 1 | | 1 | 07 | |
| 8 | 1 | | 0 | 0 | 0 | Display7Seg_8 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 7F | |
| 9 | 1 | | 0 | 0 | 1 | Display7Seg_9 | | 1 | 1 | 0 | | 0 | 1 | 1 | | 1 | 67 | |
| A | 1 | | 0 | 1 | 0 | Display7Seg_A | | 1 | 1 | 1 | | 0 | 1 | 1 | | 1 | 77 | |
| B | 1 | | 0 | 1 | 1 | Display7Seg_B | | 1 | 1 | 1 | | 1 | 1 | 0 | | 0 | 7C | |
| C | 1 | | 1 | 0 | 0 | Display7Seg_C | | 0 | 1 | 1 | | 1 | 0 | 0 | | 1 | 39 | |
| D | 1 | | 1 | 0 | 1 | Display7Seg_D | | 1 | 0 | 1 | | 1 | 1 | 1 | | 0 | 5E | |
| E | 1 | | 1 | 1 | 0 | Display7Seg_E | | 1 | 1 | 1 | | 1 | 0 | 0 | | 1 | 79 | |
| F | 1 | | 1 | 1 | 1 | Display7Seg_F | | 1 | 1 | 1 | | 0 | 0 | 0 | | 1 | 71 | |
| GPIO index | | | | | GPIO Port 4 name | | | | Resistor (select 220Ω or wire) | | | | 7-segment device pin number | | | 7-segment pin name |
| 0 | | | | | 4.0 | | | | 220Ω | | | | 7 | | | a |
| 1 | | | | | 4.1 | | | | 220Ω | | | | 6 | | | b |
| 2 | | | | | 4.2 | | | | 220Ω | | | | 4 | | | c |
| 3 | | | | | 4.3 | | | | 220Ω | | | | 2 | | | d |
| 4 | | | | | 4.4 | | | | 220Ω | | | | 1 | | | e |
| 5 | | | | | 4.5 | | | | 220Ω | | | | 9 | | | f |
| 6 | | | | | 4.6 | | | | 220Ω | | | | 10 | | | g |
| 7 | | | | | 4.7 | | | | wire | | | | Anode(3/8) | | | Common (select Anode or Cathode) |