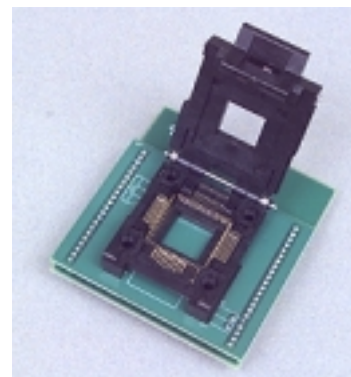


# DS87001 Microcontroller Programming Adapters

[www.maxim-ic.com](http://www.maxim-ic.com)

## DESCRIPTION

The DS87001 family of programming adapters converts the pins of the high-speed microcontroller family in SMT packages to the 40-pin DIP footprint used by most device programmers. The following table details the available adapters, their part numbers and footprints, and the microcontrollers that are supported by each adapter.



The DS87001 programming adapters feature high quality, multiple insertion sockets with gold-plated leads. The exact dimensions of the adapter vary with part number, but are approximately 7.5cm x 8.5cm x 4.0cm tall.

| ADAPTER<br>P/N         | DS87001-Q44  | DS87001-E44  | DS87001-Q52       | DS87001-E52 | DS87001-Q68 | DS87001-F80 |
|------------------------|--|--|-------------------|-------------|-------------|-------------|
| PROGRAMS<br>DALLAS P/N | 87C520-Qxx<br>89C420-Qxx<br>89C430-Qxx<br>89C440-Qxx<br>89C450-Qxx | 87C520-Exx<br>89C420-Exx<br>89C430-Exx<br>89C440-Exx<br>89C450-Exx | 87C550-Qxx        | 87C530-Exx  | 87C550-Qxx  | 87C550-Fxx  |
| DIP                    | 44 PLCC  | 44 TQFP  | 52 PLCC           | 52 TQFP     | 68 PLCC     | 80 PQFP     |
| 1                      | 2  | 40   | 3                 | 48          | 48          | 10          |
| 2                      | 3  | 41   | 4                 | 49          | 49          | 11          |
| 3                      | 4  | 42   | 5                 | 50          | 50          | 12          |
| 4                      | 5  | 43   | 6                 | 51          | 51          | 13          |
| 5                      | 6  | 44   | 7                 | 52          | 52          | 14          |
| 6                      | 7  | 1  | 8                 | 1           | 1           | 15          |
| 7                      | 8  | 2  | 9                 | 2           | 2           | 16          |
| 8                      | 9  | 3  | 10                | 3           | 3           | 17          |
| 9                      | 10   | 4  | 12                | 5           | 5           | 9           |
| 10                     | 11   | 5  | 15                | 8           | 8           | 18          |
| 11                     | 13   | 7  | 16                | 9           | 9           | 19          |
| 12                     | 14   | 8  | 17                | 10          | 10          | 20          |
| 13                     | 15   | 9  | 18                | 11          | 11          | 23          |
| 14                     | 16   | 10   | 19                | 12          | 12          | 24          |
| 15                     | 17   | 11   | 20                | 13          | 13          | 25          |
| 16                     | 18   | 12   | 21                | 14          | 14          | 26          |
| 17                     | 19   | 13   | 22                | 15          | 15          | 27          |
| 18                     | 20   | 14   | 23                | 16          | 16          | 31          |
| 19                     | 21   | 15   | 24                | 17          | 17          | 32          |
| 20                     | 1, 22, 23  | 16, 17, 39   | 1, 25, 26, 28, 51 | 18, 19, 21  | 18, 19, 21  | 34, 35      |
| 21                     | 24   | 18   | 30                | 23          | 23          | 38          |
| 22                     | 25   | 19   | 31                | 24          | 24          | 39          |
| 23                     | 26   | 20   | 32                | 25          | 25          | 40          |
| 24                     | 27   | 21   | 33                | 26          | 26          | 41          |

| <b>ADAPTER<br/>P/N</b>         | <b>DS87001-Q44</b>  | <b>DS87001-E44</b>  | <b>DS87001-Q52</b> | <b>DS87001-E52</b> | <b>DS87001-Q68</b> | <b>DS87001-F80</b> |
|--------------------------------|---|---|--------------------|--------------------|--------------------|--------------------|
| <b>PROGRAMS<br/>DALLAS P/N</b> | <b>87C520-Qxx<br/>89C420-Qxx<br/>89C430-Qxx<br/>89C440-Qxx<br/>89C450-Qxx</b> | <b>87C520-Exx<br/>89C420-Exx<br/>89C430-Exx<br/>89C440-Exx<br/>89C450-Exx</b> | <b>87C550-Qxx</b>  | <b>87C530-Exx</b>  | <b>87C550-Qxx</b>  | <b>87C550-Fxx</b>  |
| <b>DIP</b>                     | <b>44 PLCC</b>  | <b>44 TQFP</b>  | <b>52 PLCC</b>     | <b>52 TQFP</b>     | <b>68 PLCC</b>     | <b>80 PQFP</b>     |
| 25                             | 28  | 22  | 34                 | 27                 | 27                 | 42                 |
| 26                             | 29  | 23  | 35                 | 28                 | 28                 | 45                 |
| 27                             | 30  | 24  | 36                 | 29                 | 29                 | 46                 |
| 28                             | 31  | 25  | 37                 | 30                 | 30                 | 47                 |
| 29                             | 32  | 26  | 38                 | 31                 | 31                 | 48                 |
| 30                             | 33  | 27  | 39                 | 32                 | 32                 | 49                 |
| 31                             | 35  | 29  | 42                 | 35                 | 35                 | 50                 |
| 32                             | 36  | 30  | 43                 | 36                 | 36                 | 51                 |
| 33                             | 37  | 31  | 44                 | 37                 | 37                 | 52                 |
| 34                             | 38  | 32  | 45                 | 38                 | 38                 | 53                 |
| 35                             | 39  | 33  | 46                 | 39                 | 39                 | 54                 |
| 36                             | 40  | 34  | 47                 | 40                 | 40                 | 55                 |
| 37                             | 41  | 35  | 48                 | 41                 | 41                 | 56                 |
| 38                             | 42  | 36  | 49                 | 42                 | 42                 | 57                 |
| 39                             | 43  | 37  | 50                 | 43                 | 43                 | 58                 |
| 40                             | 44  | 38  | 29, 52             | 22, 45             | 22, 45             | 72                 |