

# PA1500SG-QFP Data Sheet

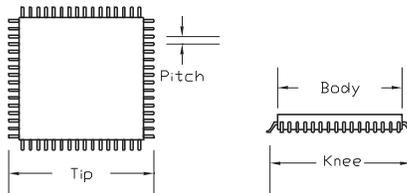
44 pin QFP socket/40 pin DIP 0.6" plug

## Supported Device/Footprints

Using this adapter, the Atmel ATF1500 in QFP package can be programmed on 40 pin DIP programmers from System General.

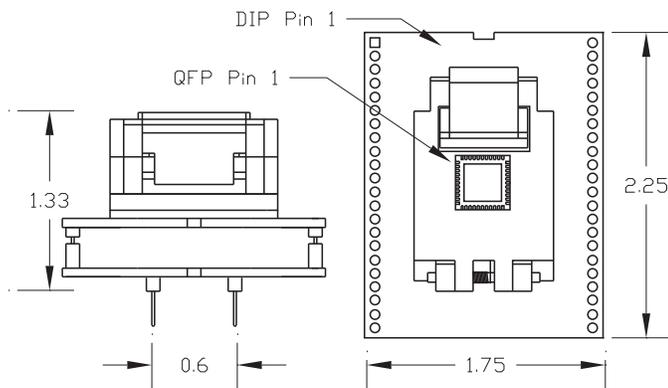
| Device |         |         | Footprint  |            |
|--------|---------|---------|--|------------|
| Mfgr   | Device  | Package | Pgmr   | Plug       |
| Atmel  | ATF1500 | QFP     | Turpro-1<br>Turpro-1/FX<br>Turpro-1/TX<br>Multi-Apro | 40 pin DIP |

The QFP socket accepts packages with the dimensions listed below:



| Body            | Knee                            | Tip                           | Pitch  |
|-----------------|---------------------------------|-------------------------------|--------|
| 10.0 mm typical | 11.0 mm typical<br>11.6 maximum | 12 mm typical<br>13.2 maximum | 0.8 mm |

## Adapter Dimensions



PA1500SG-QFP

## Adapter Construction

The adapter is made up of 3 sub-assemblies. They assemble via connectors making the adapter modular. This way the sub-assemblies can be replaced when they wear out.

When disassembling the adapter take care not to bend the pins. When reassembling the adapter note the pin 1 indicators to align the parts correctly.

### Test Socket

QFP test socket:

Enplas Part #: FPQ-44-0.8-06T

LSC Part #: 44QF-06T

### 44QFP-6T

Accepts the test socket and connects to the bottom board.

### 1500SG

Performs the wiring shown in the Adapter Wiring section.

## Adapter Wiring

The following chart shows the connections from the QFP device to the adapter's DIP plug.

| DEVICE | SIGNAL | PLUG | DEVICE | SIGNAL | PLUG |
|--------|--------|------|--------|--------|------|
| 1      |        | 7    | 23     |        | 29   |
| 2      |        | 8    | 24     | GND    | 30   |
| 3      |        | 9    | 25     |        | 31   |
| 4      | GND    | 30   | 26     |        | 32   |
| 5      |        | 11   | 27     |        | 33   |
| 6      |        | 12   | 28     |        | 34   |
| 7      |        | 13   | 29     | VCC    | 15   |
| 8      |        | 14   | 30     |        | 36   |
| 9      | VCC    | 15   | 31     |        | 37   |
| 10     |        | 16   | 32     |        | 38   |
| 11     |        | 17   | 33     |        | 39   |
| 12     |        | 18   | 34     |        | 40   |
| 13     |        | 19   | 35     |        | 23   |
| 14     |        | 20   | 36     | GND    | 30   |
| 15     |        | 21   | 37     |        | 10   |
| 16     | GND    | 30   | 38     |        | 35   |
| 17     | VCC    | 15   | 39     |        | 1    |
| 18     |        | 24   | 40     |        | 2    |
| 19     |        | 25   | 41     | VCC    | 15   |
| 20     |        | 26   | 42     |        | 4    |
| 21     |        | 27   | 43     |        | 5    |
| 22     |        | 28   | 44     |        | 6    |

There is a .1 uf capacitor between VCC & Gnd



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