PA51-Dx-QF Data Sheet
40 pin DIP socket/44 pin QFP plug

Supported Device/Footprints

The PA51-Dx-QF adapter accepts 40 pin DIP devices and has a removable 44 pin QFP solder-down plug. This allows DIP devices, or emulators with DIP plugs, to be used during development of QFP based products.
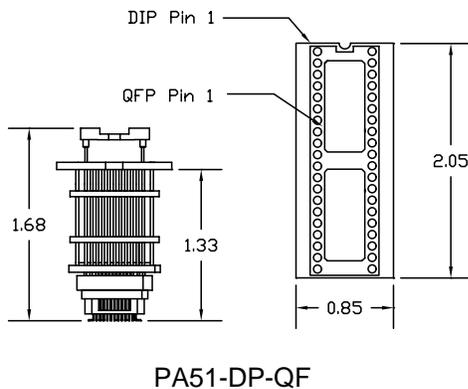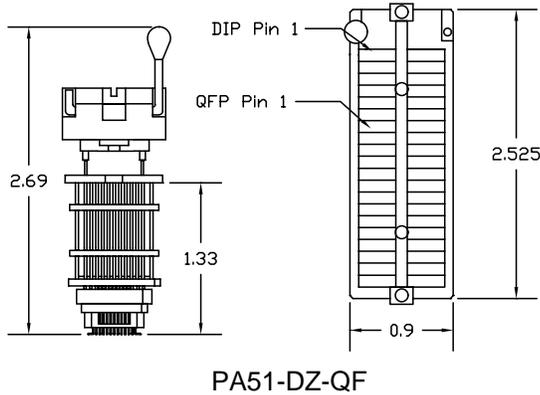
The following DIP device footprints are converted to the indicated QFP footprint.

Intel/Philips/Atmel/others:8748, 8749, 8751H, 87C51, 87C52, 87C51-FA, 87C51-FB, 87C51-FC, 87C528, 87C652, 87C654, AT89C51
Footprint: Same device 44QFP

Atmel: AT90S4414, AT90S8515
Footprint: Same device 44QFP

Other devices that require the same wiring would also be supported.

Adapter Dimensions

PA51-DZ-QF

PA51-DP-QF

Adapter Construction

The adapter is made up of 2 or 3 sub-assemblies. They assemble via connectors making the adapter modular. This way the sub-assemblies can be replaced easily.

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.

The following chart lists the adapters described by this datasheet and their subassemblies.

Adapter	Test Socket	Board	QFP Plug
PA51-DZ-QF	40-ADZ *	PA51-DP-Q	PQF-44
PA51-DP-QF	none *	PA51-DP-Q	PQF-44

* The adapter always has a 40 pin DIP production socket. The optional test socket plugs into the production socket.

Test Socket

LSC #	Style	Mfgr/Pn
40ADZ	DIP ZIF	Aries 40-6554-11

Adapter Wiring

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

DIP SOCKET	QFP PLUG	DIP SOCKET	QFP PLUG
1	40	21	18
2	41	22	19
3	42	23	20
4	43	24	21
5	44	25	22
6	1	26	23
7	2	27	24
8	3	28	25
9	4	29	26
10	5	30	27
N/C	6	N/C	28
11	7	31	29
12	8	32	30
13	9	33	31
14	10	34	32
15	11	35	33
16	12	36	34
17	13	37	35
18	14	38	36
19	15	39	37
20	16	40	38
N/C	17	N/C	39

skip short notation(1, 12, 23, 34) using PLCC equivalent pin numbers.