

PA32Q1498-20D3(6)-10 Data Sheet

32 pin QFP socket/20 pin DIP 0.3" or 0.6" plug

Supported Device/Footprints

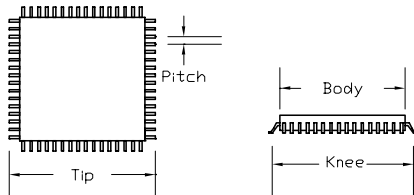
This adapter allows programming of 32 pin TQFP devices in their 20 pin DIP footprint.

The following devices are supported using the indicated footprint.

Altera: EPC2

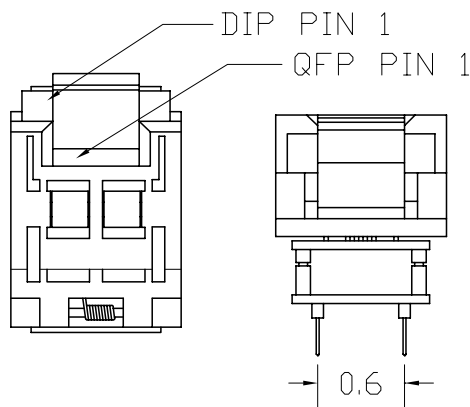
Footprint: Same device 20DIP 0.3" or 0.6". The EPC2 is not available in DIP. The PLCC pin numbers and signal names are assigned to the DIP plug. For example, the signal on PLCC pin 1 (TDO) is assigned to DIP pin 1.

The QFP socket accepts packages with the dimensions listed below:



Socket	Body	Knee	Tip	Pitch
32Q-1498	7.0 mm typ	8.0 mm typ	9.0 mm typ	0.8 mm

Adapter Dimensions



PA32QF1498-20D6-10

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 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 shows the various socket and board part numbers that make up these adapters.

Adapter	Test Socket	Top Board	Bottom Board
PA32Q1498-20D3-10	32Q-1498	32-1498	32-20-10-3
PA32Q1498-20D6-10	32Q-1498	32-1498	32-20-10-6

Test Socket

LSC #	Style	Mfgr/Pn
32Q-1498	Lidded ZIF	Yamaichi IC51-0324-1498

Adapter Wiring

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

DEVICE	SIGNAL	PLUG	PLUG	SIGNAL	DEVICE
1	N/C	-	3	TCK	32
2	DCLK	4	2	DATA	31
3	VCCSEL	5	-	N/C	30
4	N/C	-	-	N/C	29
5	N/C	-	1	TDO	28
6	N/C	-	20	VCC	27
7	OE	8	-	N/C	26
8	N/C	-	19	TMS	25
9	N/C	-	-	N/C	24
10	nCS	9	18	VPP	23
11	N/C	-	-	N/C	22
12	GND	10	-	N/C	21
13	TDI	11	-	N/C	20
14	N/C	-	-	N/C	19
15	nCASC	12	-	N/C	18
16	nINIT_CONF	13	14	VPPSEL	17