

# PA5131-MD Data Sheet

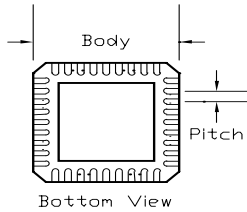
48 pin MLF socket/40 pin DIP 0.6" plug

## Supported Device/Footprints

This adapter allows programming of an Atmel AT89C5131 in the 48 pin MLF package using the 40 pin DIP footprint specified by Atmel.

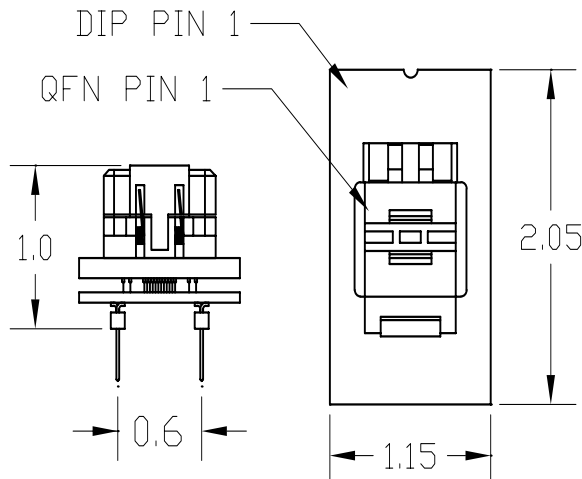
For this adapter to be useful, a programmer must offer specific support for this device and adapter combination.

The MLF socket accepts packages with the dimension sets listed below:



Socket	Body	Pitch
48QNJ-7070	7.0 mm typ	0.5 mm

## Adapter Dimensions



PA5131-MD

## Adapter Construction

The adapter is made up of 2 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.

The following chart lists the adapter described by this datasheet and its subassemblies.

Adapter	Test Socket	Adapter Board
PA5131-MD	48QNJ-7070	5131QN48

## Test Socket

LSC Socket	Style	Mfgr/Pn
48QNJ-7070	Lidded ZIF	Plastronics 48QN50T17070

## Adapter Wiring

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

MLF Socket	Signal	DIP Plug	DIP Plug	Signal	MLF Socket
36	P1.0	1	40	VCC	9,10
37	P1.1	2	39	P0.7	41
38	P1.2	3	38	P0.6	35
39	P1.3	4	37	P0.5	34
40	P1.4	5	36	P0.4	32
45	P1.5	6	35	P0.3	30
46	P1.6	7	34	P0.2	28
47	P1.7	8	33	P0.1	27
33	RST	9	32	P0.0	26
12	P3.0	10	31	EA*	17
20	P3.1	11	30	ALE	18
21	P3.2	12	29	PSEN*	19
22	P3.3	13	28	P2.7	8
23	P3.4	14	27	P2.6	7
24	P3.5	15	26	P2.5	4
25	P3.6	16	25	P2.4	3
29	P3.7	17	24	P2.3	2
5	XTAL2	18	23	P2.2	44
6	XTAL1	19	22	P2.1	43
11,31	VSS	20	21	P2.0	42