

PA51CC-BD Data Sheet

64 pin uBGA socket/40 pin DIP 0.6" plug

Supported Device/Footprints

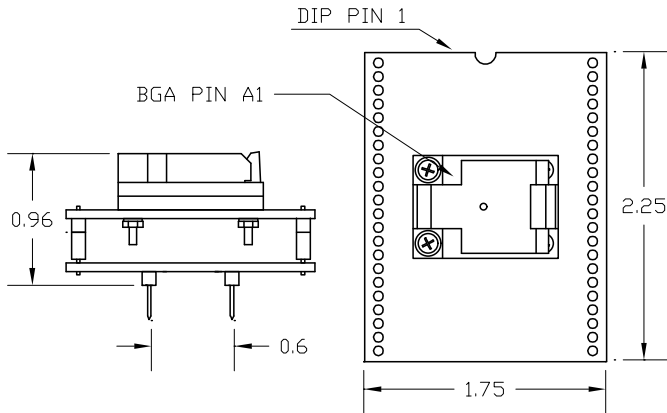
This adapter allows programming of an Atmel T89C51CC01 in the 64 pin uBGA package using the 40 pin DIP footprint specified by Atmel.

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

Atmel: T89C51CC01 8x8 uBGA Package Code: CA-BGA64

Footprint: Atmel specified 40 DIP 0.6"

Adapter Dimensions



PA51CC-BD

Adapter Construction

This 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 lists the adapter described by this datasheet and its subassemblies.

Adapter	Test Socket	Top Board	Bottom Board
PA51CC-BD	64BF-L6617	T89C51BT	51BASE

Test Socket

LSC Socket	Style	Mfgr/Pn
64BF-L6617	Lidded ZIF	Loranger 080SQ064U6617

The Test Socket is not soldered to the adapter. It uses a pressure style contact. The Contact Tails of the socket press against PCB pads when a device is installed in the socket.

To remove the socket, remove the nuts from the screws and lift the socket off the top board.

Adapter Wiring

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

uBGA Socket	Signal	DIP Plug	DIP Plug	Signal	uBGA Socket
A3	P1.0	1	40	VCC	B5,B6
B3	P1.1	2	39	P0.0	G8
A2	P1.2	3	38	P0.1	F7
B2	P1.3	4	37	P0.2	E7
A1	P1.4	5	36	P0.3	F8
B1	P1.5	6	35	P0.4	E8
C2	P1.6	7	34	P0.5	D8
C1	P1.7	8	33	P0.6	D7
D5	RST	9	32	P0.7	C8
E1	P3.0	10	31	EA*	D1
E2	P3.1	11	30	ALE	B8
F1	P3.2	12	29	PSEN*	C7
F2	P3.3	13	28	P2.7	H3
G1	P3.4	14	27	P2.6	H4
G2	P3.5	15	26	P2.5	H5
H1	P3.6	16	25	P2.4	G5
H2	P3.7	17	24	P2.3	H6
A8	XTAL2	18	23	P2.2	G6
A7	XTAL1	19	22	P2.1	H7
A4,A5,A6	VSS	20	21	P2.0	H8