PA756-64Q Data Sheet
64 pin QFP socket/40 pin DIP 0.6" plug

Supported Device/Footprints

This adapter allows device programming of several Microchip PIC processors in 64QFP packages. The adapter's 40 pin DIP footprint is device and programmer specific. It will work with any programmer that supports its programming footprint.

These devices are supported using the indicated footprint.
Microchip: PIC16C923, PIC16C924, PIC17C752, PIC17C756
Footprint: 40 DIP 0.6", See following sections.

The adapter's wiring is different for the 16C92x and 17C75x. Three jumpers on the adapter convert between those two wire lists. See the Adapter Wiring section.

Compatibility Issues

You can use the this adapter for QFP devices as if it were the Microchip PLCC adapter (AC164024). This adapter works for the QFP packaged devices. The AC164024 works for the PLCC packaged devices.
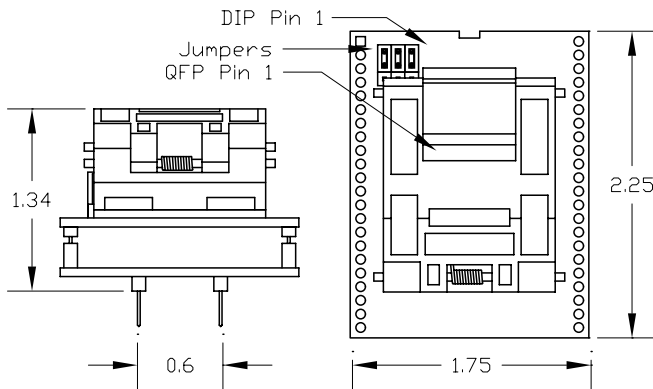
For this adapter to work, your programmer MUST provide a menu selection for the device. That menu selection must expect this adapter or the Microchip adapter.

Known compatible programmers:
Microchip: PICStartPlus
EE Tools: TopMax

Please contact LSC to add programmers you find to be compatible.

Adapter Dimensions

PA756-64Q

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.

The following chart shows the socket and board part numbers of the adapter described by this datasheet.

Adapter	Socket	Top Board	Bottom Board
PA756-64Q	64QJ-807	756Q64	44-40-P64

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 Sockets

LSC #	Style	Mfgr/Pn
64QJ-807	Lidded ZIF	Yamaichi IC51-0644-807

Adapter Wiring

The following chart shows the connections from the QFP device to the adapter's DIP plug. There are two tables. The jumper settings determine the table to use.

Jumper Settings

Devices	J2	J3	J4
PIC16C92x	2-3	2-3	2-3
PIC17C75x	1-2	1-2	1-2

Jumper names and settings match those on the Microchip PLCC adapter (AC164024).

PIC16C92x wiring:

QFP	DIP	QFP	DIP	QFP	DIP	QFP	DIP
57	1	25	10,31	41*	10,31	51	7
58	2	28*	6,11	42	13	52*	6,11
62	12	32	22	43	16	53*	39
7	32	33	25	44	15	54	4,40
8	27	34	24	45	14	55	3
9	10,31	35	23	46	12	56	10,31
10*	6,11	36	17	47*	6,11		
11	12	37	18	48	26		
12*	6,11	38*	6,11	49	9		
13	10,31	39	19	50	8		

PIC17C75x wiring:

QFP	DIP	QFP	DIP	QFP	DIP	QFP	DIP
57	1	25	10,31	41*	10,31	51	7
58	2	28*	1	42	13	52*	6
62	12	32	22	43	16	53*	5
7	32	33	25	44	15	54	4,40
8	27	34	24	45	14	55	3
9	10,31	35	23	46	12	56	10,31
10*	1	36	17	47*	11		
12	12	37	18	48	26		
12*	1	38*	1	49	9		
13	10,31	39	19	50	8		

* QFP pin connected differently between tables.
All other QFP and DIP pins are NOT Connected.