

# PSOP 44D-CP

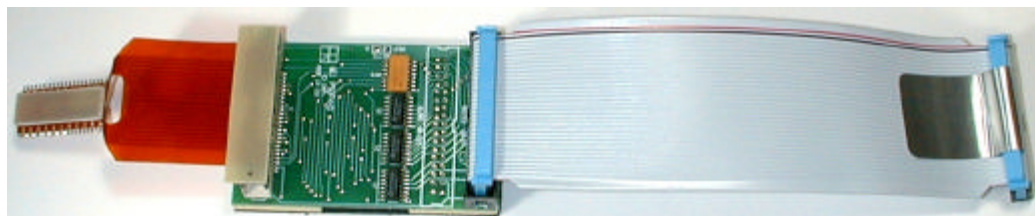
## Memory Footprint

NC	1		44	VCC
RESET#	2		43	CE#
A11	3		42	A12
A10	4		41	A13
A9	5		40	A14
A8	6		39	A15
A7	7		38	A16
A6	8		37	A17
A5	9		36	A18
A4	10		35	A19
NC	11	PSOP44D	34	NC
NC	12		33	NC
A3	13		32	A20
A2	14		31	NC
A1	15		30	WE#
A0	16		29	OE#
D0	17		28	RY/BY#
D1	18		27	D7
D2	19		26	D6
D3	20		25	D5
GND	21		24	D4
GND	22		23	VCC

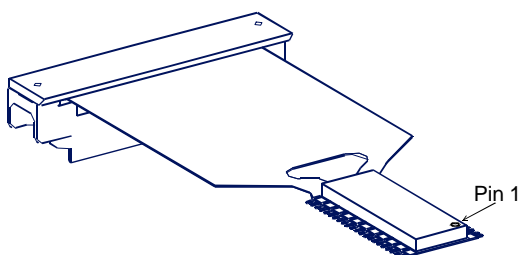
- 44 pin TSOP, 16 bit memories
- Probe plugs into Meritec socket (Meritec Part # 980021-44)
- Maximum memory size 2M Bytes
- Organized as 2M x 8 bit
- Maximum PromICE: P1160
- For **3 Volt parts**, 3 Volt adapter (GEI Part # 3VA8DC) is required.

**Note: Maximum memory size is shown in footprint. For smaller memories, unused lines must be connected to V<sub>cc</sub> to ensure proper PromICE operation.**

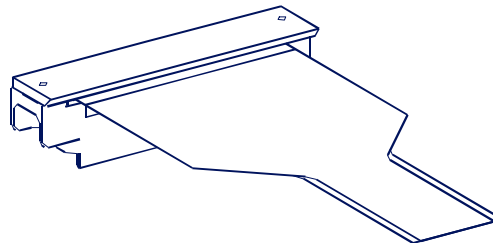
## Complete Cable Assembly



## PSOP Flex Probes



**Correct Probe** – The probe shipped with this cable is intended for insertion in a Meritec socket. Instructions for inserting this probe are included with the probe and in this document.



**Wrong Probe** – This probe is designed to be soldered directly to the PCB. If you received this probe in error, do not attempt to insert it in a socket. Contact Grammar Engine for an exchange.

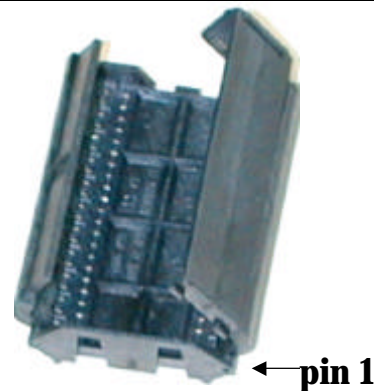
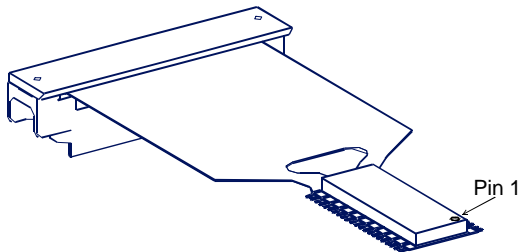
## Memories Supported

- [www.promice.com/memories.htm](http://www.promice.com/memories.htm) contains a listing of all memories supported by Grammar Engine target cables.
- Emulates devices like 28F002~016 and others.

**For Technical Support, contact Grammar Engine at 614-899-7878 or [support@gei.com](mailto:support@gei.com)  
For Sales, contact Grammar Engine Inc. [www.gei.com](http://www.gei.com) or 1.800.PROMICE.**

<b>Notes and Precautions</b>	<b>Always turn target power OFF when connecting or disconnect PromICE target cables.</b>	If your target has capacitors, allow sufficient discharge time. Connecting with the power on can damage cables or the PromICE.
	<b>Important Note: The PSOP plug-in flex probe will work only with Meritec PSOP sockets</b>	This probe cannot be used with any other company's PSOP socket. Insertion in any other manufacturer's socket, or attempting to solder a plug-in probe. Will damage the probe and void its warranty.
	<b>Do not hand solder Meritec sockets on your PCB</b>	The Meritec sockets were designed to be placed on the PCB via reflow. <b>DO NOT ATTEMPT TO HAND SOLDER THE SOCKET TO YOUR PCB:</b> solder can wick up into the socket and damage the probe when it is inserted.  If you need assistance (including custom socket connection services, contact AlpTex at 440.437.5570
	<b>Handle the PSOP Flex Probe with care.</b>	Retain the plastic box to store flex probe when not in use. Damage to the flex probe through mishandling is not covered in your PromICE warranty or support policy. <b>Once the seal on the case is broken, Grammar Engine Inc. cannot accept returns of flex probes.</b>

<b>Installation Instructions</b>	<b>Step</b>	<b>Action</b>	<b>Notes</b>
	1.	<b>Verify that you have the correct cable for the memory you are emulating.</b>	If you have the wrong cable, contact Grammar Engine or your distributor for a replacement.
	2.	<b>Connect PromICE.</b>	With the power off to your PromICE, connect the shielded ground plane cables to your PromICE.
	3.	<b>Connect the adapter board to the Flex Probe.</b>	Remove the PSOP Flex Probe from its protective case. Connect the female connector on the Flex Probe to the male connector on the adapter board. Be careful to align the connectors carefully to avoid damaging the pins on the adapter board.
	4.	<b>Align Flex Probe in PSOP socket</b>	Locate pin 1 on the probe and identify the corresponding pin in your socket.



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If you are unsure of the correct orientation, consult the cable schematic and the schematic of your target board. The flex probe must emerge from the "open" side of the socket.

Lower the PSOP socket vertically and seat it in the socket.

Inspect (with a magnifier if necessary) to confirm that each pin is fully seated in the socket.  
Do not insert the probe at an angle, since this can damage individual pins.

<b>5.</b>	<b>Close the PSOP socket lids.</b>	<p>Lower the lids until they are almost closed and the cam underneath each lid engage. From that point, close the lids together and latch. <b>DO NOT FORCE THE LIDS CLOSED-THIS WILL DAMAGE THE PROBE.</b> If they do not close easily, open the lids and reseat the probe in the bottom of the socket.</p> <p>Once the probe is seated successfully in the socket, do not pull or put any twisting force on the Probe.</p> <p>If possible, avoid repeatedly removing and reinserting the probe in the socket.</p>
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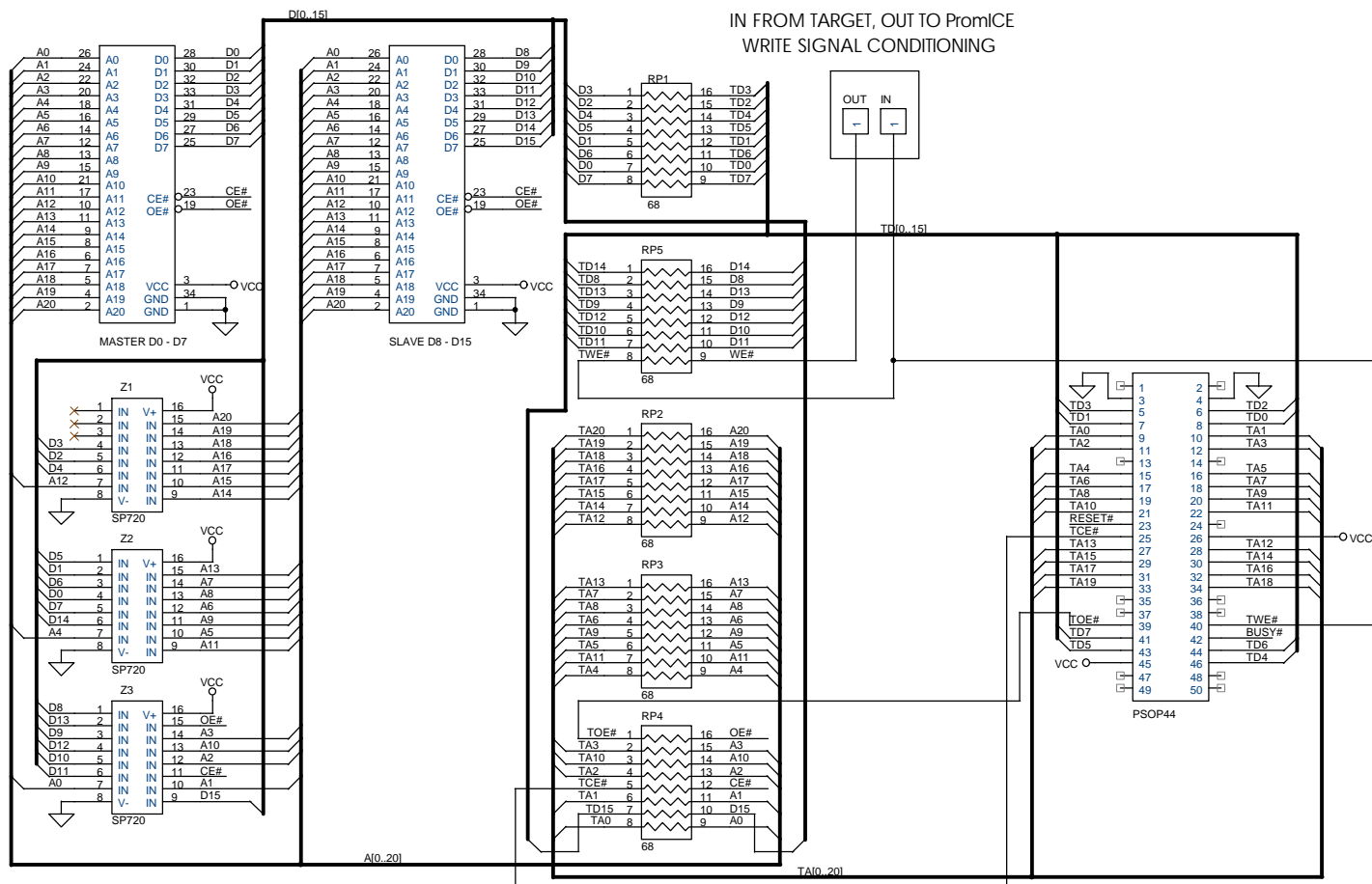
**You are now ready to power up your target and PromICE. Please consult your PromICE manual for further setup information.**

**Contact your Grammar Engine Sales Representative to order these parts and accessories:**

<b>Cable Parts</b>	<b>PSOP44D BD</b> <b>34FFEXT</b> <b>34FF6.7EXT</b> <b>PSOP44CPH</b>  <b>PSOP44 Plug-in socket</b>	Adapter Board 6" Shielded Ground Plane Cable 6.75" Shielded Ground Plane Cable 44 pin PSOP plug-in flex probe (AlpTex #923708-44) 44 pin PSOP socket (Alp Tex #980021-44-02)
<b>Accessories</b>	<b>3VA8DC</b>	3 Volt Adapter

# PSOP44D

8-bit



IN FROM TARGET, OUT TO PromICE  
WRITE SIGNAL CONDITIONING

DEVICE FOOTPRINT

1	NC	VCC	44
2	RESET#	CE#	43
3	A11	A12	42
4	A10	A13	41
5	A9	A14	40
6	A8	A15	39
7	A7	A16	38
8	A6	A17	37
9	A5	A18	36
10	A4	A19	35
11	NC	NC	34
12	NC	NC	33
13	NC	NC	32
14	A3	A20	31
15	A2	NC	30
16	A1	WE#	29
17	A0	OE#	28
18	D0	RY/BY#	27
19	D1	D7	26
20	D2	D6	25
21	D3	D5	24
22	GND	VCC	23

PSOP44D

**NOTES:**

MAX SIZE: 2MB (P1160)  
SUPPORTS: 8 bit only PSOPs  
PROMICE JUMPER SETTING: 32

RESET# AND BUSY# NOT CONNECTED

Slave connector not populated.

Board ID: GEI PSOP44D

Grammar Engine Inc.

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Westerville OH 43081

Title  
PSOP44D

Size B	Document Number 097-0006	Rev 1.0
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Date: Monday, July 12, 1999 Sheet 1 of 1