

# PSOP 44B1-CP

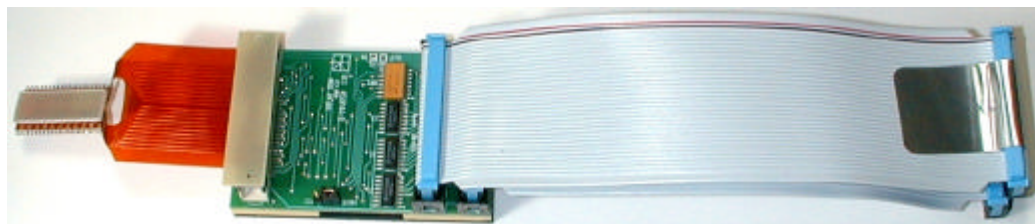
## Memory Footprint

VPP	1		44	WE#
A18	2		43	A19
A17	3		42	A8
A7	4		41	A9
A6	5		40	A10
A5	6		39	A11
A4	7		38	A12
A3	8		37	A13
A2	9		36	A14
A1	10		35	A15
A0	11	PSOP44B1	34	A16
CE#	12		33	BYTE#
GND	13		32	GND
OE#	14		31	D15/A-1
D0	15		30	D7
D8	16		29	D14
D1	17		28	D6
D9	18		27	D13
D2	19		26	D5
D10	20		25	D12
D3	21		24	D4
D11	22		23	VCC

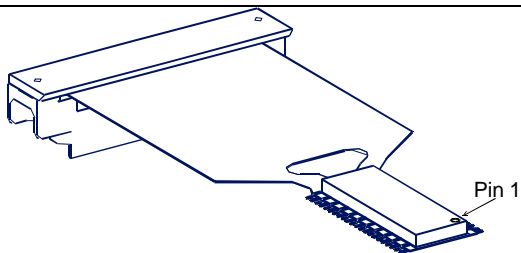
- 44 pin TSOP, 16 bit memories
- Probe plugs into Meritec socket (Meritec Part # 980021-44)
- Maximum memory size 2M Bytes
- Organized as 1M x 16 bit
- Maximum PromICE: P2080
- For **3 Volt parts**, 3 Volt adapter (GEI Part # 3VA16) is required.

**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.**

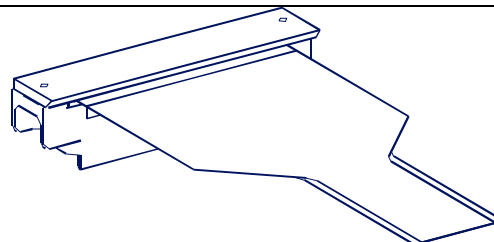
## Complete Cable Assembly



## 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 M27C1610; 29LV160 and others.

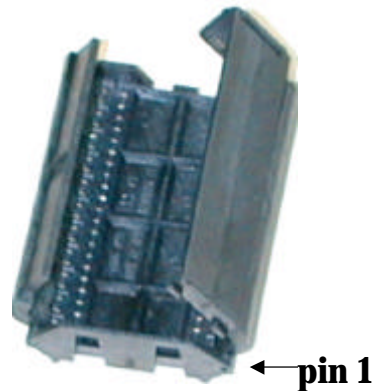
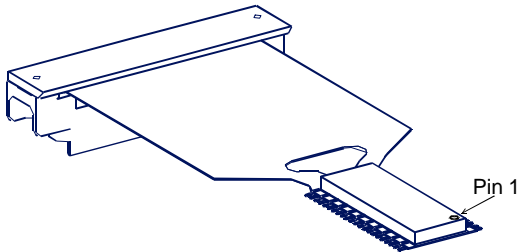
**For Technical Support, contact Grammar Engine at 614-899-7878 or [support@gei.com](mailto:support@gei.com)  
For Sales, contact Grammar Engine Inc. [www.gei.com](http://www.gei.com) or 1.800.PROMICE.**

**Notes and Precautions**

Always turn target power OFF when connecting or disconnect PromICE target cables.	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. DO NOT ATTEMPT TO HAND SOLDER THE SOCKET TO YOUR PCB: 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>

**Installation Instructions**

Step	Action	Notes
1.	Verify that you have the correct cable for the memory you are emulating.	If you have the wrong cable, contact Grammar Engine or your distributor for a replacement.
2.	Connect PromICE.	With the power off to your PromICE, connect the shielded ground plane cables to your PromICE.
3.	Connect the adapter board to the Flex Probe.	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.	Align Flex Probe in PSOP socket	Locate pin 1 on the probe and identify the corresponding pin in your socket.



**For Technical Support, contact Grammar Engine at 614-899-7878 or support@gei.com  
For Sales, contact Grammar Engine Inc. at www.gei.com or 1.800.PROMICE.**

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.

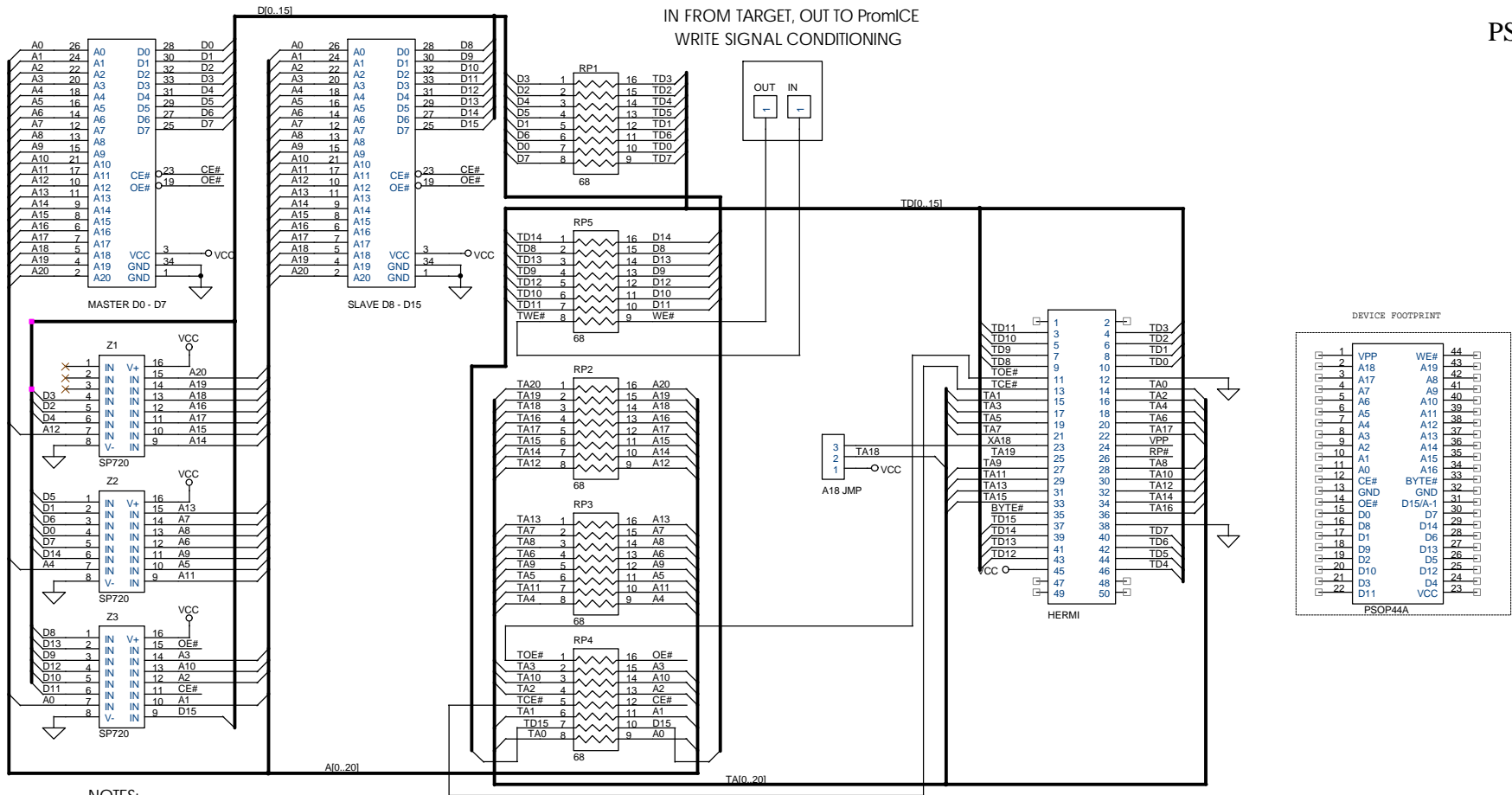
<b>5.</b>	<b>Close the PSOP socket lids.</b>	<p>Lower the lids until they are almost closed and the cam underneath each lid engage. From that point, close the lids together and latch. <b>DO NOT FORCE THE LIDS CLOSED-THIS WILL DAMAGE THE PROBE.</b> If they do not close easily, open the lids and reseat 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>
-----------	------------------------------------	--

**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>PSOP44B1 BD</b> <b>34FFEXT</b> <b>34FF6.7EXT</b> <b>PSOP44 CPH</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>3VA16DC</b>	3 Volt Adapter

PSOP44B1  
16-bit



NOTES:

MAX SIZE: 2MB (1M x 16) (P2080)  
SUPPORTS: Macronix M27C1610  
PROMICE JUMPER SETTING: 32

A18 JMP must connect 2-3 to emulate this part.

44 pin PSOP 16 bit in 16 bit mode. BYTE#, VPP and RP# are not connected.

PSOP44B1 connects pin 43 of the PSOP to A19 on the PromICE. The PSOP44B is used to create this adapter. A18 JMP must have a jumper across pins 2-3 to emulate Macronix M27C1610.

Grammar Engine Inc.		
921 Eastwind Drive Suite 122 Westerville OH 43081		
File: PSOP44B1		
Size	Document Number	Rev
B	019-0003	1.0
Date:	Monday, July 12, 1999	Sheet 1 of 1