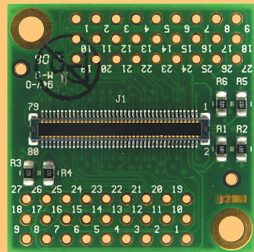
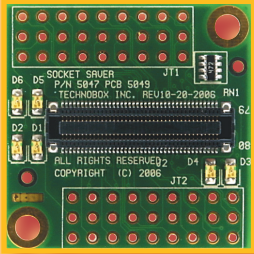
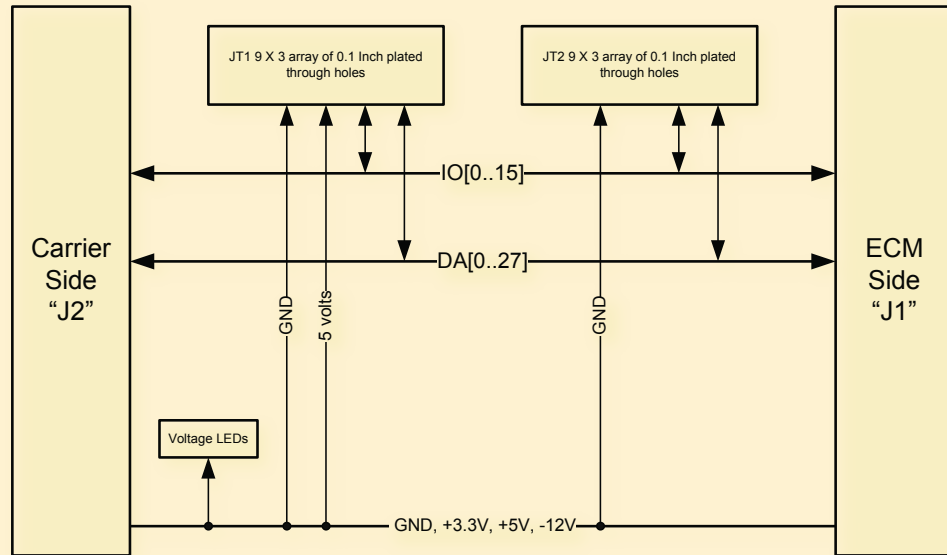


Conversion Module

ECM Socket Saver



5047



- Socket saver and test ECM
- Access all ECM signals
- Permits custom wiring
- Use for design validation
- Provides 2 mm of elevation
- Access I/O and data signals via through hole soldering pads
- Saves connector wear
- LED power indicators
- On-board serial identification circuit
- Industrial temperature
- RoHS compliant
- Patented

Specifications

Temperature (Operating):
-40 to +85 degrees C

Temperature (Storage):
-55 to +100 degrees C

Altitude: Not Specified or
Characterized. Typical similar
equipment is at 15,000 ft.

Humidity (Operating/Storage):
5% to 90% non-condensing

Vibration: Not specified or
Characterized

Shock: Not specified or Char-
acterized

MTBF: Available on request.

Weight: 3 grams

Power: TBD

Technobox, inc.

140 Mount Holly Bypass
Unit 1
Lumberton, NJ 08048

Tel: 609-267-8988
Fax: 609-261-1011

www.technobox.com

Ordering Information

5047: ECM Socket Saver

The Technobox P/N 5047 Socket Saver ECM module provides breakout of ECM signals for debug and development.

Elevates the ECM module by 2 mm.

Provides probe points for all the signals between the FPGA and the ECM module.

Provides through hole pins for adding wire connections to IO signals and Data signals.

Functions as a programming adapter for the serial number microcontroller on all ECM modules..

Saves wear on the ECM carrier board connectors.

Can be made into a loop back testing board by attaching wires to the test headers.

LEDs indicate for presence of 3V, 5V, +12V and -12V.

The following illustrations show an ECM socket saver modified to allow probing of signals on a 7 pin header. To probe a live signal a wire solder to one of the through hole pins is needed.

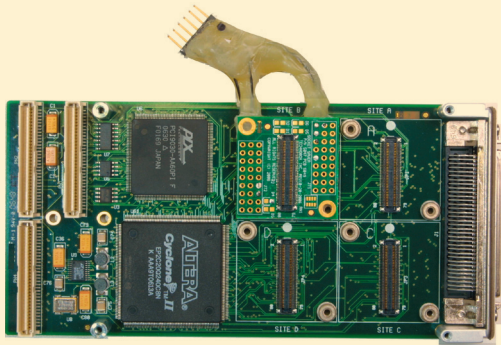


Figure 1 ECM socket saver mounted in carrier

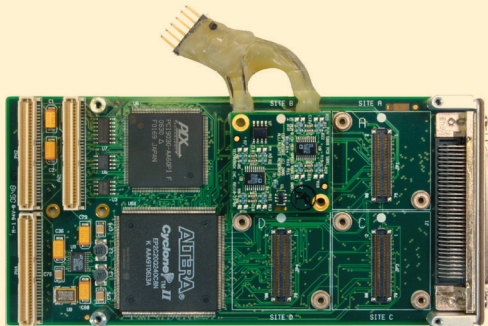


Figure 2 ECM mounted on socket saver

Signal	J1 Pin #	J2 Pin #	JT1	JT2	LED
IO0	16	16		15	
IO1	18	18		16	
IO2	28	28		17	
IO3	30	30		18	
IO4	52	52		19	
IO5	54	54		20	
IO6	64	64		21	
IO7	66	66		22	
IO8	65	65	15		
IO9	63	63	16		
IO10	53	53	17		
IO11	51	51	18		
IO12	29	29	19		
IO13	27	27	20		
IO14	17	17	21		
IO15	15	15	22		
DA0	10	10		1	
DA1	12	12		2	
DA2	22	22		3	
DA3	24	24		4	
DA4	34	34		5	
DA5	36	36		6	
DA6	46	46		7	
DA7	48	48		8	
DA8	58	58		9	
DA9	60	60		10	
DA10	70	70		11	
DA11	72	72		12	
DA12	71	71	1		
DA13	69	69	2		
DA14	59	59	3		
DA15	57	57	4		
DA16	47	47	5		
DA17	45	45	6		
DA18	35	35	7		
DA19	33	33	8		
DA20	23	23	9		
DA21	21	21	10		
DA22	11	11	11		
DA23	9	9	12		
DA24	40	40		13	
DA25	41	41	13		
DA26	42	42		14	
DA27	39	39	14		
GND	7,8 etc	7,8 etc	25	25	
V12P	4	4			D3
V12N	2	2			D4
V3A	4	4			D1
V3B	6	6			D2
V5A	3	3	24		D5
V5B	5	5			D6
uDATA	75	75	27		
SN	76	76		23	
uCLK	77	77	26		
VMC	78	78		24	
NC1	79	79		27	
u12v	80	80	23		

Table 1 Cross reference to LEDs, JT1 and JT2

TOP SIDE CIRCUITRY

DA[0..27]

