



## Quick Reference Guide

### Express Mini Card and Display Mini Card Sockets

TE Connectivity's (TE) express mini card and display mini card sockets address interconnect requirements for expansion cards added on boards across server, desktop, consumer devices and notebook platforms. This product portfolio consists of right angle, surface mount sockets with 52 contacts (express mini card) or 76 contacts (display mini card). Latches are available for selected heights. The design meets the PCI-SIG industry standard for high speed data.

#### FEATURES & BENEFITS

- Sockets available in heights from 4mm to 9.9 mm
- Capable of withstanding 50G mechanical shock testing
- Contact manufacturing method creates a contact with more stable normal force than other methods
- Compliant with PCI-SIG standard

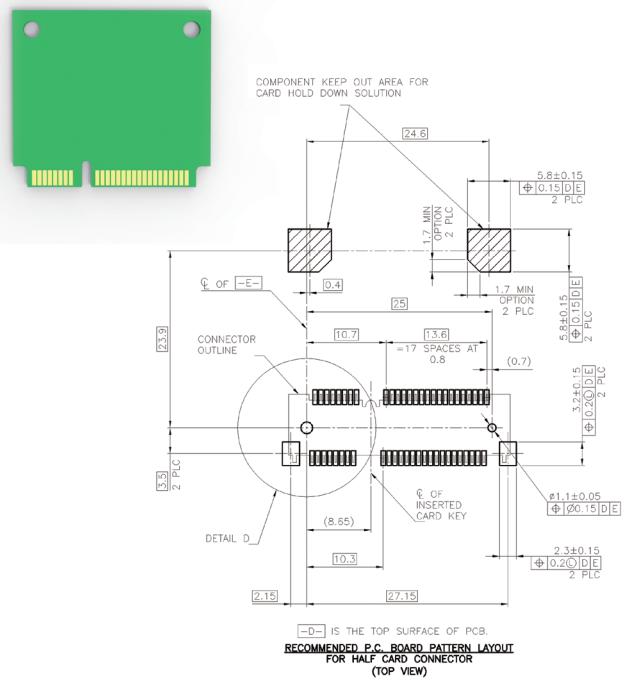
#### APPLICATIONS

- Notebook PC
- Desktop PC
- Wireless Communication Equipment

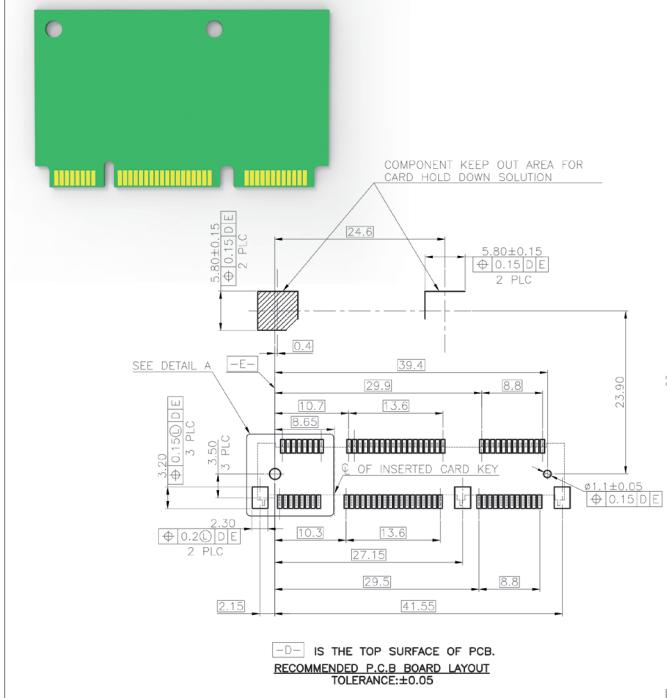
## Express Mini Card and Display Mini Card Sockets

### Product Sizes

#### Express Mini Card

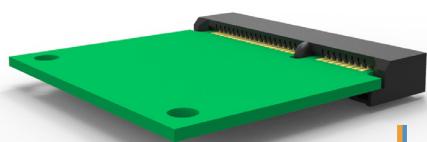


#### Display Mini Card



TE Connectivity's express mini card is fully compatible with PCI express mini card specification.

TE Connectivity's display mini card is fully compatible with PCI express mini card, HDMI and displayport specification.



DMC card fully inserted into socket



CONNECTOR PIN-OUT DEFINITIONS (FOR BOTH DISPLAY AND EXPRESS MINI CARD)			
PIN#	NAME	PIN#	NAME
16	UIM_VPP	51	RESERVED
15	GND	49	RESERVED
14	UIM_RESET	47	RESERVED
13	REFCLK+	45	RESERVED
12	UIM_CLK	43	GND
11	REFCLK-	41	+3.3Vaux
10	UIM_DATA	39	+3.3Vaux
9	GND	37	GND
8	UIM_PWR	35	GND
7	CLKRFQ#	33	PETn0
6	1.5V	31	PETn03
5	COEX2	29	GND
4	GND	27	GND
3C	OEX1	25	PETn02
23	.3Vaux	23	PETn0
1W	AKE#	21	GND
		19	RESERVED*(UIM_C4)
		17	RESERVED*(UIM_C8)1
		52	+3.3Vaux
		50	GND
		48	+1.5V
		46	LED_WPAN#
		44	LED_WPAN#
		42	LED_WPAN#
		38	USB_D+
		36	USB_D-
		34	GND
		25	MB_DATA
		30	SMB_CLK
		28	+1.5V
		6	GND
		24	+3.3Vaux
		22	PERST#
		20	W_DISABLE#
		8	GND

CONNECTOR PIN-OUT DEFINITIONS (FOR DMC)			
PIN#	NAME	IN#	NAME
75	GND	76	MLDIR
73	ML0n	74	GND
71	ML0n	72	GND
69	GND	70	ML1p
67	GND	68	ML1p
65	ML2n	66	GND
63	ML2n	64	GND
61	GND	62	ML3p
59	GND	60	ML3n
57	AUXp	58	GND
55	AUXn	57	GND
53	DMC#	54	HPD

\* RESERVED FOR FUTURE UIM INTERFACE (IF NEEDED)

## Express Mini Card and Display Mini Card Sockets

### 52 Position Express Mini Card Sockets

TE Part Number	Contact Plating Mating Area	Stack Height	Mount	Card Centerline to PCB	Packaging
2041119-1	Gold Flash	.157 in[4.00 mm]	Top	2.05mm	Tape and reel
2041119-2	Gold (10)	.157 in[4.00 mm]	Top	2.05mm	Tape and reel
1775862-1	Gold (10)	.205 in[5.2 mm]	Top	3.25mm	Tape and reel
1775862-2	Gold Flash	.205 in[5.2 mm]	Top	3.25mm	Tape and reel
1775838-1	Gold (10)	.220 in[5.6 mm]	Top	3.65mm	Tape and reel
1775838-2	Gold Flash	.220 in[5.6 mm]	Top	3.65mm	Tape and reel
2041262-1	Gold Flash	.268 in[6.8 mm]	Top	4.85mm	Tape and reel
2041262-2	Gold (10)	.268 in[6.8 mm]	Top	4.85mm	Tape and reel
1759547-1	Gold Flash	.276 in[7.0 mm]	Top	5.05mm	Tape and reel
1759503-1	Gold Flash	.315 in[8.0 mm]	Top	6.05mm	Tape and reel
1759513-1	Gold Flash	.354 in[9.0 mm]	Top	7.05mm	Tape and reel
1759546-1	Gold Flash	.390 in[9.9 mm]	Top	7.95mm	Tape and reel
2041216-1	Gold (10)	.390 in[9.9 mm]	Top	7.95mm	Tape and reel
1759941-1	Gold Flash	.177 in[4.5 mm]	Bottom	2.5mm	Tape and reel
1-1775861-2	Gold Flash	.157 in[4.00mm]	Top	2.05mm	Tape and reel
1775861-2	Gold Flash	.157 in[4.00mm]	Top	2.05mm	Tape and reel
1775861-2	Gold Flash	.157 in[4.00mm]	Top	2.05mm	Tape and reel
1775838-5	Gold Flash	.220 in[5.60mm]	Top	3.65mm	Tape and reel
2041286-2	Gold (30)	.157 in[4.00mm]	Top	2.04mm	Tape and reel

### 76 Position DMC (Display Mini Card) Sockets

2041286-1	Gold Flash	.157 in[4.00 mm]	Top	2.04mm	Tape and reel
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### Latches for Express Mini Card Sockets

1717832-2	N/A	.157 in[4.00 mm]			
1827682-1	N/A	.276 in[7.00 mm]			

# Frequently asked questions

## Question 1

Will express mini card connectors replace existing mini PCI connectors ?

## Answer 1

The trend will be to move towards express mini card, but mini PCI will still be used for some time.

## Question 2

Is a latch required when using this connector ?

## Answer 2

TE Connectivity does offer latches for the 4mm and 7mm connectors, but many customers manufacture their own standoffs

## Question 3

When would I use the DMC (Display Mini Card) connector instead of the express mini card ?

## Answer 3

If you need a wireless display option, you would use the DMC connector.

## FOR MORE INFORMATION

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\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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8-17734S9-7 CIS PDF 07/2016

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