

## 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 transmission.

#### FEATURES & BENEFITS

- Express mini card sockets are available in heights from 4mm to 10.6mm
- Capable of withstanding 50G mechanical shock testing
- Contact manufacturing method creates a contact with more stable normal force than other methods
- Connectors meet PCI-SIG industry standard

#### APPLICATIONS

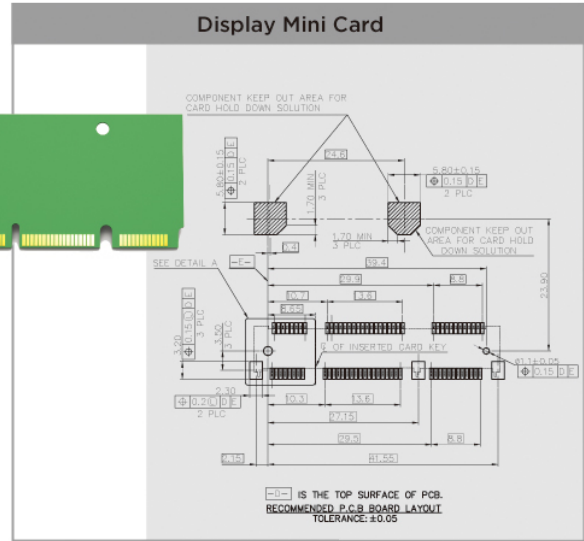
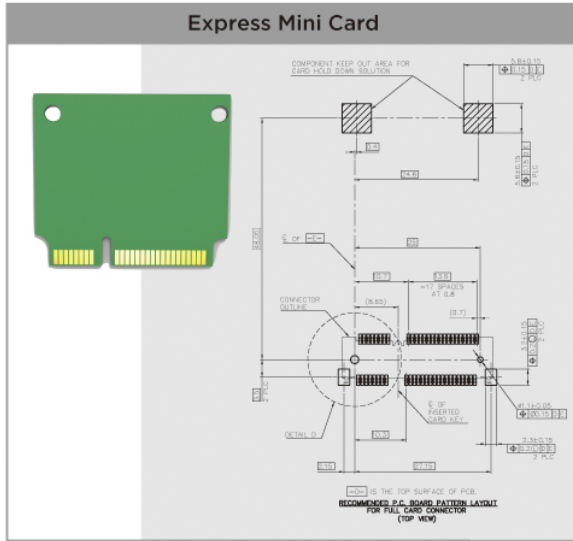
- Notebook
- Desktop
- Wireless communication equipment

[te.com/products/PCIEMiniCard](http://te.com/products/PCIEMiniCard)

PCI-SIG is a trademark.

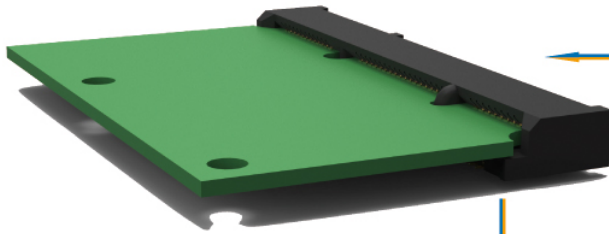


Product Sizes



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

TE Connectivity's display mini card of product is fully compatible with the 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	PIN#	NAME
16	UIM_VPP	51	RESERVED	52	+3.3Vaux
15	GND	49	RESERVED	50	GND
14	UIM_RESET	47	RESERVED	48	+1.5V
13	REFCLK+	45	RESERVED	46	LED_WPAN#
12	UIM_CLK	43	GND	44	LED_WPAN#
11	REFCLK-	41	+3.3Vaux	42	LED_WPAN#
10	UIM_DATA	39	+3.3Vaux	40	GND
9	GND	37	GND	38	USB_D+
8	UIM_PWR	35	GND	36	USB_D-
7	CLKRFQ#	33	PETn0	34	GND
6	1.5V	31	PETn0	32	SMB_DATA
5	COEX2	29	GND	30	SMB_CLK
4	GND	27	GND	28	+1.5V
3	COEX1	25	PERn0	26	GND
2	3.3Vaux	23	PERn0	24	+3.3Vaux
1	WAKE#	21	GND	22	PERST#
		19	RESERVED* (UIM_C4)	20	W_DISABLE#
		17	RESERVED* (UIM_CB)	18	GND

\* RESERVED FOR FUTURE UIM INTERFACE (IF NEEDED)

**CONNECTOR PIN-OUT DEFINITIONS (FOR DMC)**

PIN#	NAME	PIN#	NAME
75	GND	76	MLDIR
73	MLOn	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	56	GND
53	DMC#	54	HPD

52 Position Express Mini Card Sockets					
TE Part Number	Contact Plating, Mating Area	Stack Height	Mount	Card Centerline to PCB	Packaging
2041119-1	Gold (10)	.157 in[4.00 mm]	Top	2.1 mm	Tape and reel
2041119-2	Gold Flash	.157 in[4.00 mm]	Top	2.1 mm	Tape and reel
2041119-3	Gold (10)	.157 in[4.00 mm]	Top	2.1 mm	RVS Tape and reel
2041119-4	Gold Flash	.157 in[4.00 mm]	Top	2.1 mm	RVS Tape and reel
1775862-1	Gold (10)	.205 in [5.2 mm]	Top	3.25 mm	Tape and reel
1775862-2	Gold Flash	.205 in [5.2 mm]	Top	3.25 mm	Tape and reel
1-1775862-1	Gold (10)	.205 in [5.2 mm]	Top	3.25 mm	RVS Tape and reel
1-1775862-2	Gold Flash	.205 in [5.2 mm]	Top	3.25 mm	RVS Tape and reel
1775838-1	Gold (10)	.220 in [5.6 mm]	Top	3.65 mm	Tape and reel
1775838-2	Gold Flash	.220 in [5.6 mm]	Top	3.65 mm	Tape and reel
1775838-3	Gold (10)	.220 in [5.6 mm]	Top	3.65 mm	RVS 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	5.05 mm	Tape and reel
1759503-1	Gold Flash	.315 in [8.0 mm]	Top	6.05 mm	Tape and reel
1759503-2	Gold Flash	.315 in [8.0 mm]	Top	6.05 mm	RVS Tape and reel
1759513-1	Gold Flash	.354 in [9.0 mm]	Top	7.05 mm	Tape and reel
1759546-1	Gold Flash	.390 in [9.9 mm]	Top	7.95 mm	Tape and reel
1759516-1	Gold Flash	.413 in [10.5 mm]	Top	8.55 mm	Tape and reel
2041032-1	Gold Flash	.417 in [10.6 mm]	Top	8.65mm	Tape and reel
1759941-1	Gold Flash	.177 in [4.5 mm]	Bottom	2.5mm	Tape and reel
76 Position DMC (Display Mini Card) Sockets					
2041286-1	Gold Flash	.157 in[4.00 mm]	Top	2.04 mm	Tape and reel
Latches for Express Mini Card Sockets					
1717832-2	N/A	.157 in [4.00 mm]			
1827682-1	N/A	.276 in [7.0 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

No. TE Connectivity does offer latches for the 4mm and 7.0mm 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

### TE Connectivity Technical Support Center

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For other country number go to [te.com/supportcenter](http://te.com/supportcenter)

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

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