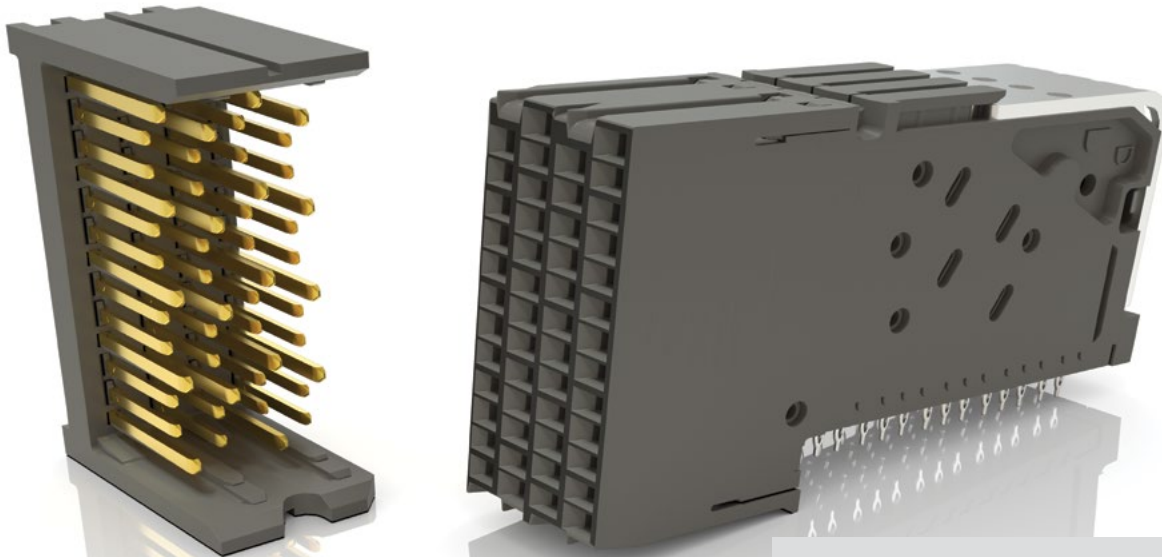


## HIGH-DENSITY BACKPLANE HEADERS & SOCKETS

(1.80 mm) .071" PITCH

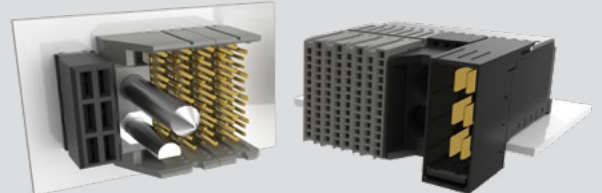
16  
Gbps



### FEATURES & BENEFITS

- Small form factor and modular design provides significant space-savings and flexibility
- High-performance system
- Up to 84 differential pairs per linear inch
- 3, 4 and 6-pair designs on 4, 6 and 8 columns
- Integrated power, guidance, keying and end walls available
- 85  $\Omega$  and 100  $\Omega$  options
- Combine any configuration of modules to create one integrated receptacle (BSP Series); corresponding terminal modules are individually mounted to the backplane
- Press-fit extraction and insertion tool options; please visit [samtec.com/tooling](http://samtec.com/tooling) for details

### MODULAR DESIGN



Signal, Power & Keying / Guidance options can be customized in any configuration

### HIGH-DENSITY, SMALL FORM FACTOR



**XCede<sup>®</sup> HD**  
Up to 84 pairs per linear inch



**Traditional Backplane**  
Up to 76 pairs per linear inch

(Both shown with six 4-pair, 8 column receptacles)

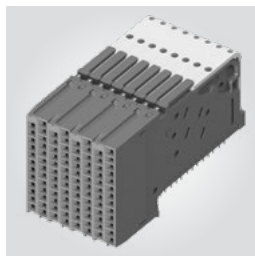
### KEY SPECIFICATIONS

PITCH	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE
1.80 mm	LCP	Phosphor Bronze (HDTM Series) Copper Alloy (HDTF & HPTS Series)	Au or Sn over 50 $\mu$ " (1.27 $\mu$ m) Ni	-40 °C to + 105 °C (HDTX Series)

## (1.80 mm) .071" PITCH • HIGH-DENSITY BACKPLANE RECEPTACLE

HDTF	PAIRS PER COLUMN	NO. OF COLUMNS	PLATING	RA	WAFERS	IMPEDANCE
	-3, -4, -6	-04, -06, -08	-S = 30 μ" (0.76 μm) Gold on Contact Area, Matte Tin on Tail		-LC = Standard  -HS = High-Speed	-100 = 100 Ω  -085 = 85 Ω

**HDTF**  
Board Mates:  
HDTM

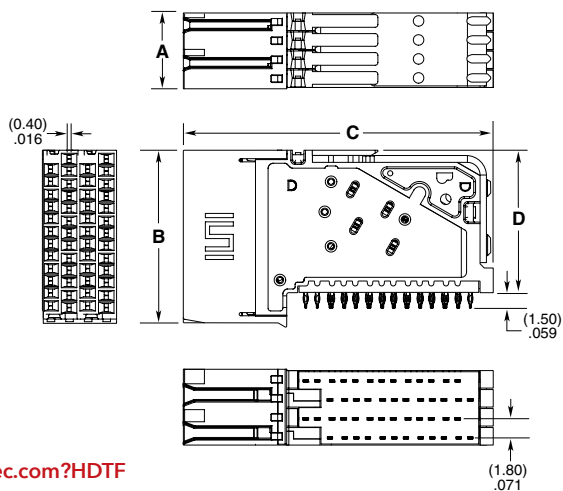


NO. OF COLUMNS	A
-04	(7.2) .28
-06	(10.8) .42
-08	(14.4) .57

PAIRS PER COLUMN	B	C	D
-3	(12.8) .50	(26.0) 1.02	(9.8) .386
-4	(16.4) .64	(29.4) 1.16	(13.5) .53
-6	(23.6) .93	(36.6) 1.44	(20.7) .81

### ALSO AVAILABLE

Power and keying/guidance modules also are available but require a single customizable BSP product. Contact HSBP@samtec.com.

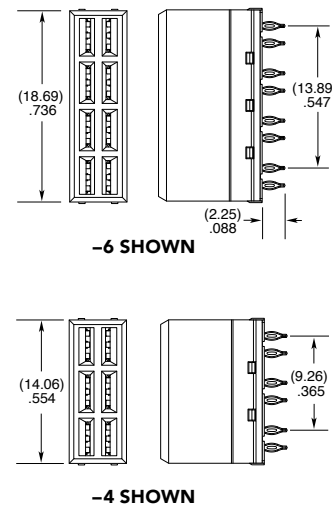
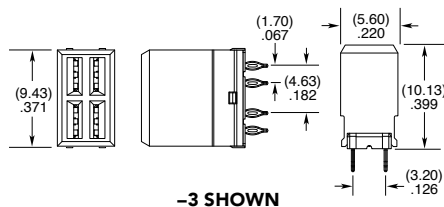
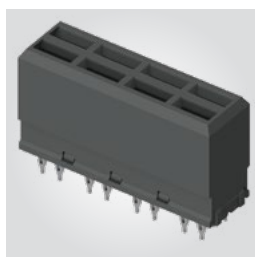


View complete specifications at: [samtec.com?HDTF](http://samtec.com?HDTF)

## (3.20 mm) .126" PITCH • HIGH-DENSITY BACKPLANE POWER MODULE

HPTS	BODY HEIGHT	PLATING	D	ORIENTATION
	Based on Pair Count of Signal Modules (HDTF Series). -3 = For use with 3 pair HDTF Series -4 = For use with 4 pair HDTF Series -6 = For use with 6 pair HDTF Series	-S = 30 μ" (0.76 μm) Gold on Contact Area, Matte Tin on Tail		-VT = Vertical

**HPTS**  
Mates with:  
BSP  
(See HDTF for more information.)



View complete specifications at: [samtec.com?HPTS](http://samtec.com?HPTS)

**Notes:**  
Some lengths, styles and options are non-standard, non-returnable.  
XCede<sup>®</sup> is a registered trademark of Amphenol.

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