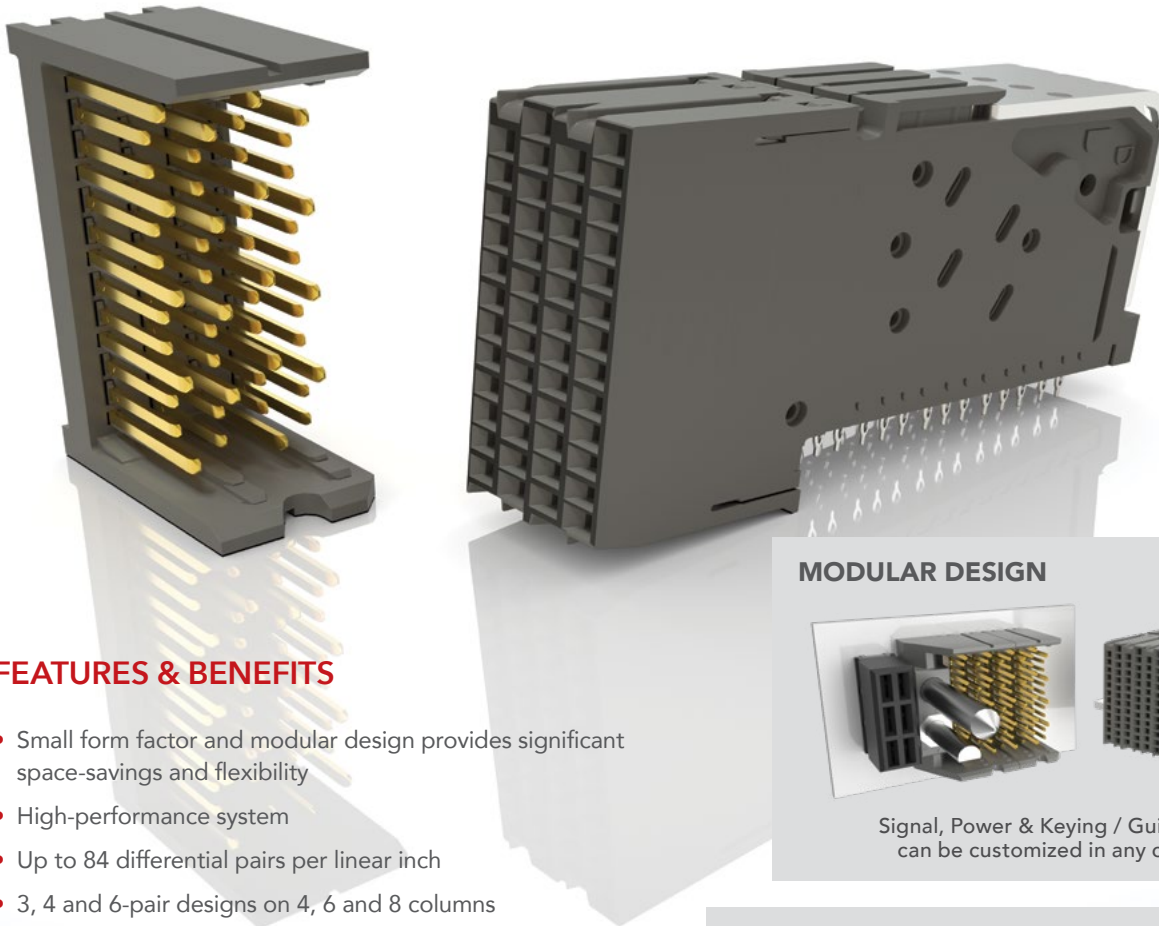# XCede® HD

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 side walls available

- 85 Ω and 100 Ω options

- Combine any configuration of modules to create one integrated receptacle (BSP Series); corresponding terminal modules are individually mounted to the backplane. Visit **samtec.com?BSP** or contact **HSBP@samtec.com**

- Press-fit extraction and insertion tool options; please visit **samtec.com/tooling** for details

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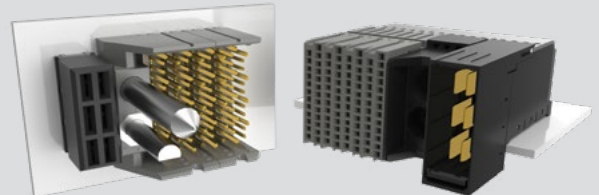
Signal, Power & Keying / Guidance options can be customized in any configuration

HIGH-DENSITY, SMALL FORM FACTOR

XCede® 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

SERIES	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING
HDTM/HDTF	LCP	Phosphor Bronze (HDTM) Copper Alloy (HDTF)	Au or Sn over 50 μ" (1.27 μm) Ni	-40 ˚C to + 105 ˚C	1.5 A per contact	48 VAC
HPTS/HPTT	LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-40 ˚C to + 105 ˚C	10 A per blade	48 VAC

samtec.com/XCedeHD

HDTM	PAIRS	NO. OF COLUMNS	TAIL SIZE	S	VT	SIDE WALLS	GUIDANCE	STAGE COMBO	KEYING

PAIRS
–3, –4, –6
=Pairs Per Column

NO. OF COLUMNS
–04, –06, –08

TAIL SIZE
–1 =(.4495 mm) .0177" Drill
–2 =(.5511 mm) .0217" Drill

SIDE WALLS
–0 = Open (No Walls)
–1 = Left
–2 = Right
–4 = Left Polarizing with left guidance (–4 Pairs N/A)
–5 = Right Polarizing with right guidance (–4 Pairs N/A)

GUIDANCE
–4 or –5 Polarizing Only; Leave Blank for No Guidance
–L = Left Side Guide Pin (–4 Pairs N/A)
–R = Right Side Guide Pin (–4 Pairs N/A)

STAGE COMBO
–1 = 3 mm Wipe Signal / 4 mm Wipe Ground
–2 = 2 mm Wipe Signal / 4 mm Wipe Ground
–3 = 3 mm Wipe Signal / 3 mm Wipe Ground
–4 = 2 mm Wipe Signal / 3 mm Wipe Ground
–5 = 2 mm Wipe Signal / 2 mm Wipe Ground

KEYING
–4 or –5 Polarizing Only; Leave Blank for No Keying
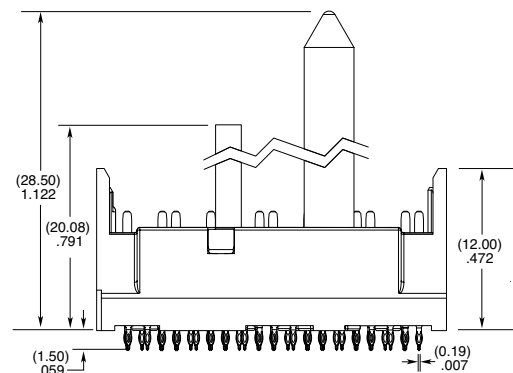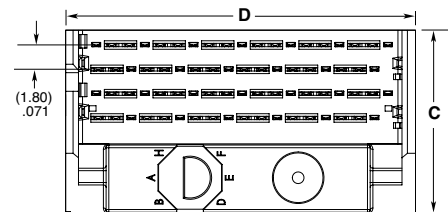–A thru –H = Position of Flat on Key (See Table)

HDTM
Board Mates:
HDTF, BSP

(1.80) .071

(12.00) .472

(2.40) .094

(0.19) .007
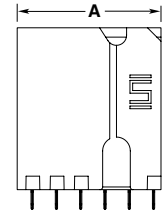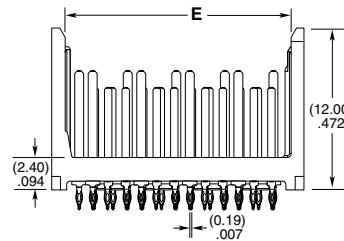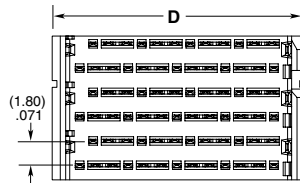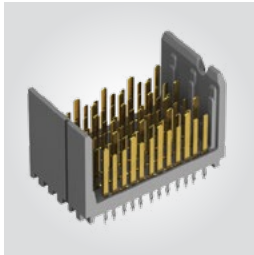
HDTM-4-06-1-S-VT-0-1 SHOWN

NO. OF COLUMNS	A			C	
	No Walls	Left Wall	Right Wall	Left Polarize	Right Polarize
–04	(7.06) .278	(8.20) .323	(8.06) .317	N/A	N/A
–06	(10.66) .420	(11.80) .465	(11.66) .459	(17.14) .675	(16.65) .656
–08	(14.26) .561	(15.40) .606	(15.26) .600	(20.74) .817	(20.25) .797

PAIRS PER COLUMN	D	E
	Standard Wall	
–03	(15.10) .594	(13.15) .518
–04	(18.70) .736	(16.75) .659
–06	(25.90) 1.020	(23.95) .943

D

(1.80) .071

C

KEYING								
	–A	–B	–C	–D	–E	–F	–G	–H
–L / –R								

(28.50) 1.122

(20.08) .791

(12.00) .472

(1.50) .059

(0.19) .007

HDTM-6-04-X-X-VT-4-L-X-A SHOWN

Notes:
Some lengths, styles and options are non-standard, non-returnable.

XCede® is a registered trademark of Amphenol.

View complete specifications at: **samtec.com?HDTM**