



XCede[®] and XCede[®] HD

Product Presentation



Licensed Products



- FCI is licensed, by ATCS, as a second source for XCede[®] backplane connectors and derivatives (XCede[®] HD)
- All products tooled by FCI have been cross mated and tested for mechanical interchangeability
- All products have been tested for signal integrity (SI) equivalency
- All FCI products have equivalent or better terms:
 - Quality
 - Lead Time
 - Price

Markets, Industries



- Communications
 - Routers
 - Switches
 - Networking
 - Access
 - Transport
 - Wireless
- Data
 - Servers
 - Storage
- Industrial
- Medical
- Test & Measurement



Product Categories

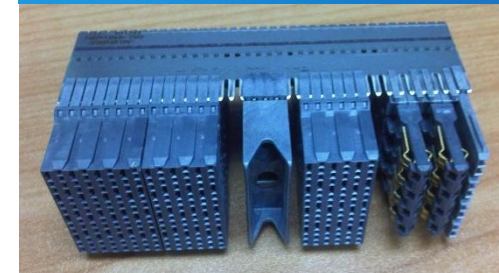
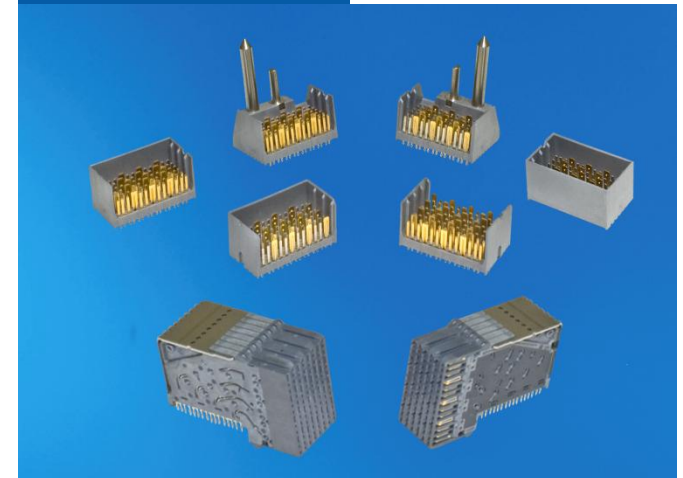
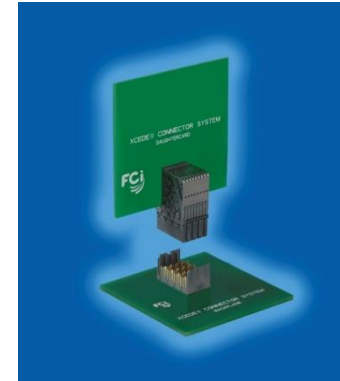


- High Speed Backplane Products
 - Xcede High Speed
 - Xcede Low Speed
 - Xcede HD (High Density)
- New products
 - Xcede Stacker
 - Xcede Orthogonal

XCede[®] Connector System



- Intermateable, electrically and mechanically interchangeable second source to Amphenol TCS (ATCS)
- Telecordia Central Office Compliant
- Right angle daughter card modules mate to vertical backplane modules
- Custom ATCS equipment Practice (not hard metric)
- Capable of high-speed differential signaling at ≤ 25 Gb/s
- 1.85mm column pitch offers high linear signal density
- Two ground vias between differential pairs allows for elongated antipads to further improve impedance



* XCede[®] is a registered trademark of Amphenol Corporation

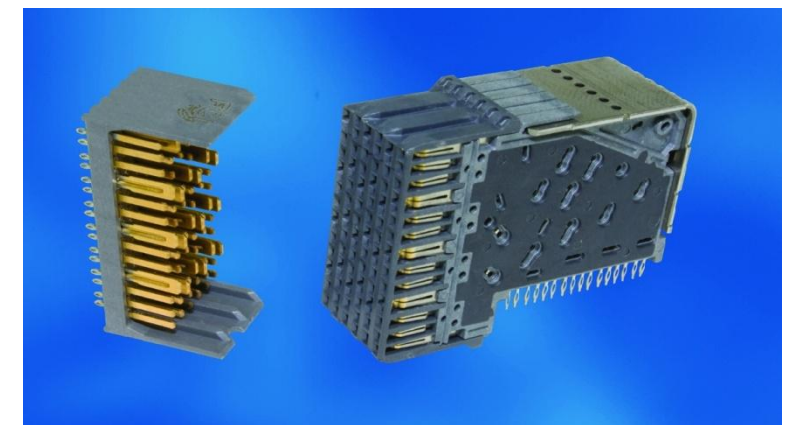
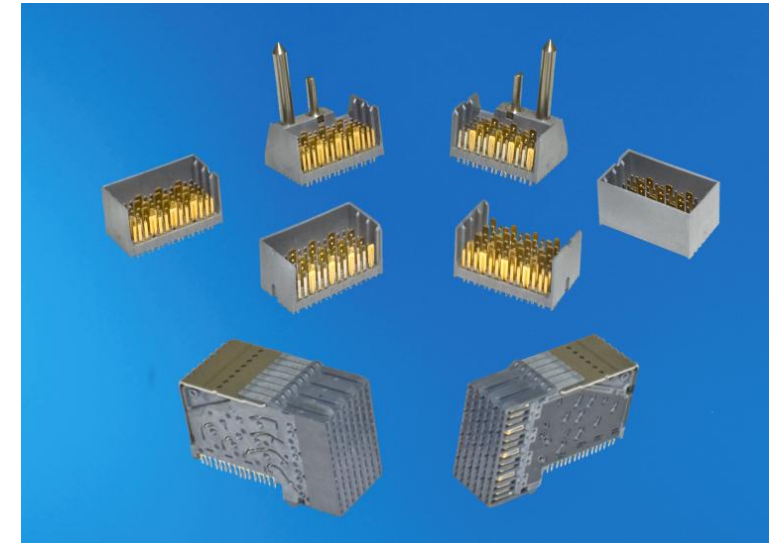
XCede[®] Connector System

FCI offering



- Right angle daughter card modules mating with vertical backplane modules
- 85 and 100 Ohm impedance
- Small and standard press-fit tails
- PELT: 8 Weeks

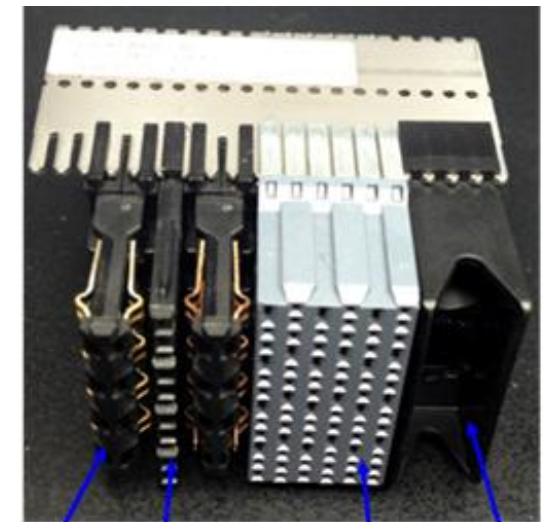
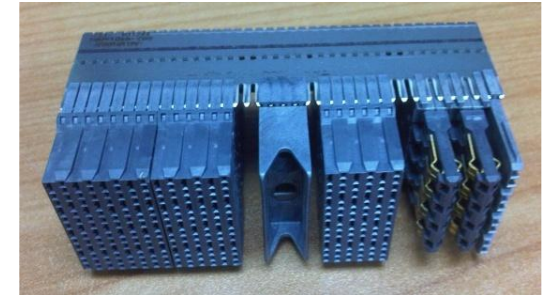
Standard XCede Header			
Pair count	Base	Column Size	Diff Pairs
2 Pair	10114868	4	8
	10113947	6	12
	10113949	8	16
3 pair	10119187	4	12
	10119189	6	18
	10119191	8	24
4 pair	10091836	4	16
	10091767	6	24
	10091777	8	32
6 pair	10114508	4	24
	10104997	6	36
	10104999	8	48



XCede® RAR Monoblock Application



- High-Speed and Low-Speed Receptacle module
- 4 and 6 Pair RAR and upto 8 columns
- Monoblock offer maximum flexibility
- Combines multiple Signal modules along with Power modules, Guide modules & End cap
- PELT: 8 Weeks



Power Right Angle End Cap Signal Right Angle Guide Module
Daughter Card

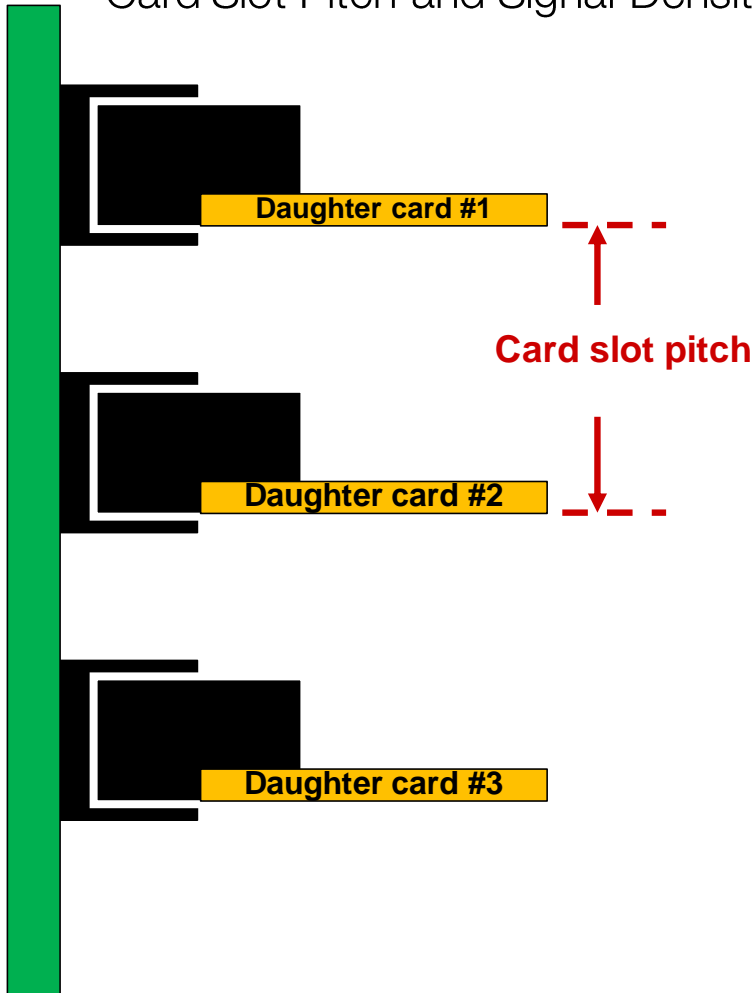
Standard XCede RA Receptacle			
Pair count	Base	Column Size	Differential Pairs
4 pair	10091844	4	16
	10091799	6	24
	10091812	8	32
6 pair	10105004	4	24
	10105007	6	36
	10105010	8	48

XCede® Comparison Chart



XCede vs. XCede HD

■ Card Slot Pitch and Signal Density Options



Standard XCede (XD)	Density (Pairs/cm)	Profile Height (mm)	Card Slot Pitch (mm)	Column Pitch (mm)
4 Pair	21	19.3	24.8	1.85

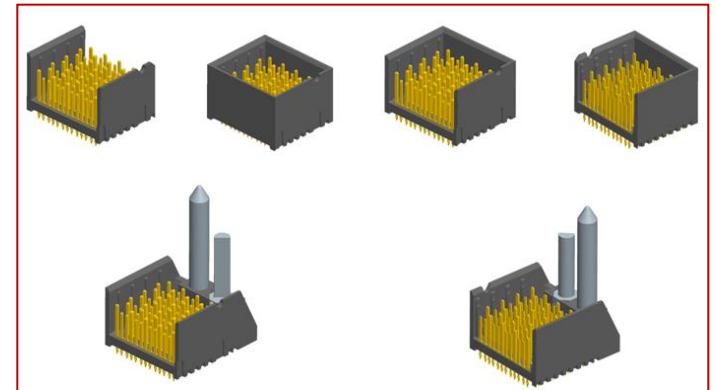
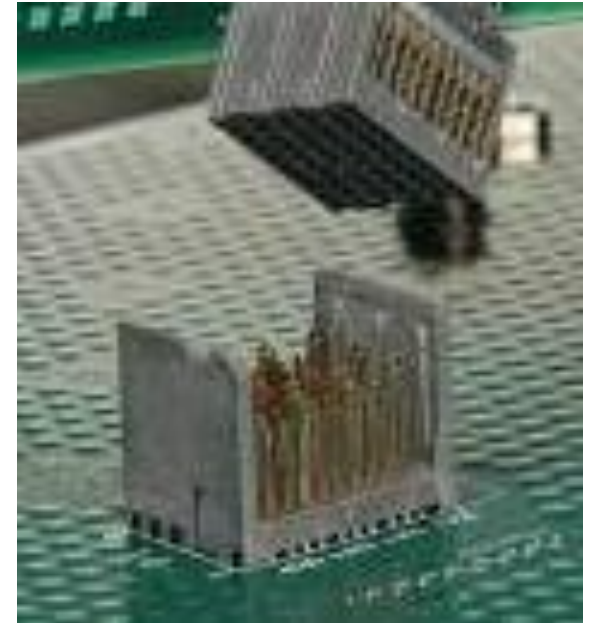
XCede HD (XHD)	Density (Pairs/CM)	Profile Height (mm)	Card Slot Pitch (mm)	Column Pitch (mm)
4 Pair	22	13.5	18.7	1.80
6 Pair	33	20.7	25.9	1.80

XHD : 35% Increase in Density compared to Standard XCede

XCede® HD Connector System



- Intermateable, electrically and mechanically interchangeable second source to Amphenol TCS (ATCS)
- Telcordia Central Office Compliant
- Use of advanced engineering polymers materials in resonance-damping shield aids in elimination of crosstalk
- Hard Metric equipment practice version of XCede® in Vertical Header configurations for data rates up to 25 Gb/s
- 1.8 mm column pitch offers high linear signal density representing a 35% increase versus XCede



XCede® HD Connector System



- FCI offers Vertical header with standard pressfit and small pressfit versions
 - 3, 4 & 6 pair & 4,6&8 columns
 - Apart from the standard wall housing, we offer thick wall version which enhances rigidity and guiding

XCede HD Header			
Pair count	Base	Column Size	PELT
3 pair	10119126	4 column	6 Wks
	10119128	6 column	6 Wks
	10120124	8 column	6 Wks
4 pair	10120126	4 column	6 Wks
	10120128	6 column	6 Wks
	10115091	8 column	6 Wks
6 pair	10120130	4 column	6 Wks
	10119130	6 column	6 Wks
	10120132	8 column	6 Wks



FCI XCode® Products Available



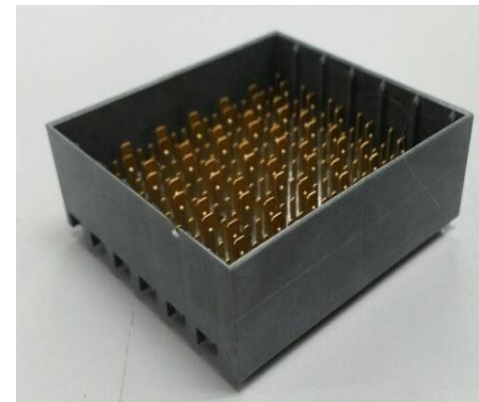
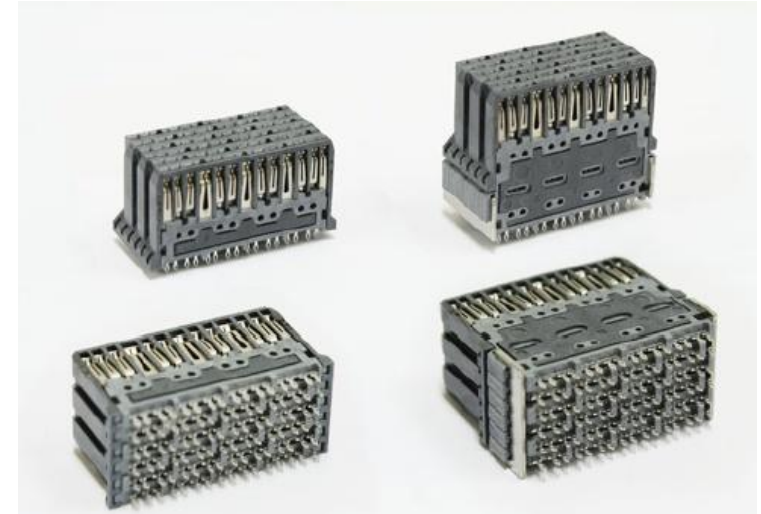
Connector & Configuration	Pair Size	Product type	Columns		
			4	6	8
XCede HD Backplane	3	Vertical Header Signal	√	√	√
	4	Vertical Header Signal	√	√	√
	6	Vertical Header Signal	√	√	√

Connector & Configuration	Pair Size	Product type	Signal Integrity	Columns						Power & Guide	Stacker Height								
				4	6	8	12	14	24		15	22	30	40	44				
XCede Backplane	2	Vertical Header Signal		√	√	√													
	3	Vertical Header Signal		√	√	√													
	4	Vertical Header Signal			√	√	√												
			Standard		√	√	√												
			Enhanced		√	√	√												
		Enh Gen 2		√	√	√													
	Vertical Receptacle Power										√								
		R/A Header Power									√								
		R/A Receptacle Guide Module									√								
	6	Vertical Header Signal			√	√	√												
			Standard		√	√	√												
		Vertical Receptacle Power									√								
		R/A Header Power									√								
R/A Receptacle Guide Module										√									
XCede Stacker	4	Vertical Receptacle Signal Gen 2			√								√	√					
XCede Orthogonal	6	Vertical Header Signal					√												

New XCede® Products



- XCede Stacker
 - Enables parallel board to board design
 - 4Pair 6Column, 100 Ω version
 - 15mm and 22mm height
 - PELT : 8 weeks
- XCede Orthogonal
 - Vertical header
 - 6 Pair x 12Column, 85 Ω version
 - Optional guiding pin is available





THANK YOU

