

Refer to [TE Spec 114-163004](#) for most up to date information

VITA 46 VPX Part Numbers									
	RT 2 (10Gb/s)		RT 2-R (Rugged 10Gb/s)		RT 2-S (+16Gb/s)		RT 3 (+25Gb/s)		RT3 Highspeed with Power
Position	Differential	Single Ended	Differential	Single Ended	Differential	Differential	Differential	Differential	
P0		1410189-3		2102772-1		2302318-1	2102772-1 (RT 2-R)		2332816-1
P1, 2, 3, 4, 5, 6	1410187-3	1410190-3	2102771-1	2102847-1		2302317-1	2302785-1		
DC Guide	1-1469492-X		2000713-X		2000713-X		2000713-X		
J0		1410186-1		2102735-1	2102735-1 (RT 2-R)		2102735-1 (RT 2-R)		2332817-1
J1, 3, 4, 5		1410140-1		2102736-1	2102736-1 (RT 2-R)		2302789-1		
J2, 6		1410142-1		2102737-1	2102737-1 (RT 2-R)		2302790-1		
BP Pin	1-1469491-X		2000676-X		2000676-X		2000676-X		

VITA 46-10 RTM Part Numbers

DC	RT 2 (10Gb/s)		RT 2-R (Rugged 10Gb/s)		RT 2-S (+16Gb/s)		RT 3 (+25Gb/s)		
Position	Differential	Single Ended	Differential	Single Ended	Differential	Single Ended	Differential	Single Ended	
RPO		1410968-3		2102773-1		2302319-1			2302794-1
RP1, 3, 4, 5, 6	1410975-3	1410970-3	2102774-1	2102849-1	2302320-1		2102849-1	2302795-1	2102849-1
RP2	1410971-3	1410972-3	2102775-1	2102848-1	2302321-1		2102848-1	2302796-1	2102848-1
RTM DC Guide	1-1469492-X		2000713-X		2000713-X		2000713-X		
BP	RT2		RT2-R		RT 2-S		RT3		
Position	Full Load		Full Load		Full Load		Full Load		
RJ0	1410964-1	1410965-1	2102768-1	2102850-1	2102768-1 (RT 2-R)	2102850-1 (RT 2-R)	2302791-1	2302792-1	
RJ1	1410140-1	1410966-1	2102736-1	2102851-1	2102736-1 (RT 2-R)	2102851-1 (RT 2-R)	2302789-1	2302793-1	
RJ2	1410186-1		2102735-1		2102735-1 (RT 2-R)		2302788-1		
RJ3	1410142-1		2102737-1		2102737-1 (RT 2-R)		2302790-1		
RJ4, 5, 6	1410140-1		2102736-1		2102736-1 (RT 2-R)		2302789-1		
RTM BP Pin	1410956-1		2226127-1		2226127-1		2226127-1		

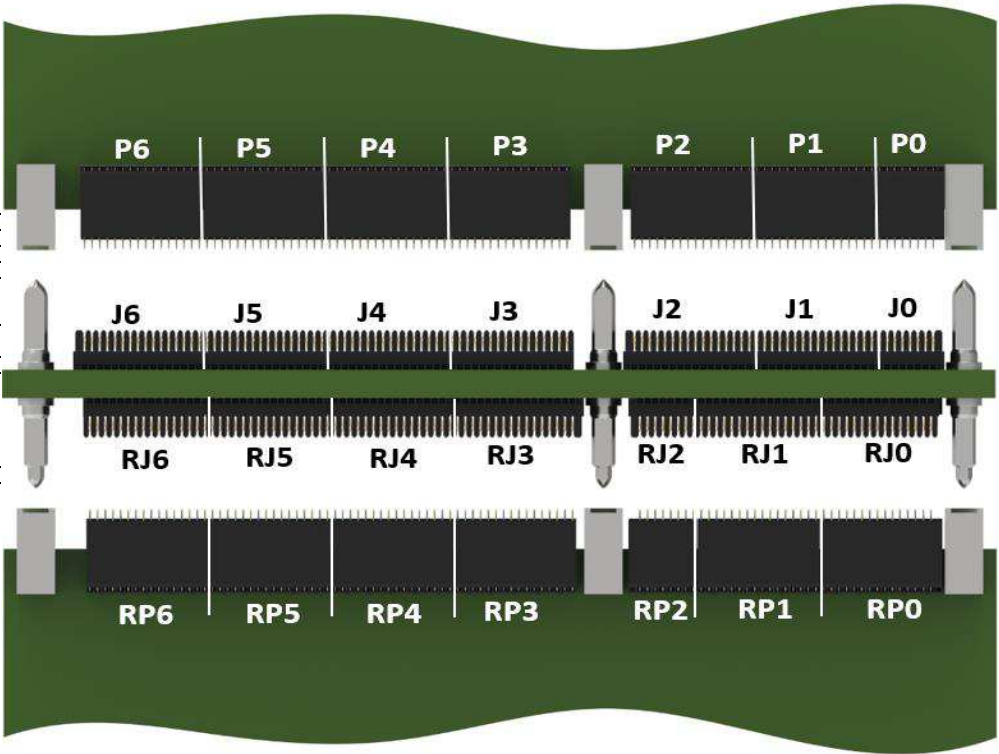
Modules for VITA 66.4 and 67.1 3U applications

Position	RT 2 (10Gb/s)		RT 2-R (Rugged 10Gb/s)		RT 2-S (+16Gb/s)		RT 3 (+25Gb/s)		
P0 + P1A	1410326-3		2286250-1		2345723-1		2313237-1		
J0 + J1A	1410140-1		2102736-1		2102736-1 (RT 2-R)		2313238-1		
J0 + J1A Right End	1410142-1		2102737-1		2102737-1		2352032-1		
P1B + P2A	1410187-3		2102771-1		2302317-1		2302785-1		
J1B + J2A	1410142-1		2102737-1		2102737-1		2302790-1		

Space VPX VITA 78 and 78.1

Position	VITA 78 SpaceUM 3U	VITA 78 SpaceUM 6U	VITA78.1 PowerSX	VITA 78.1 Power Supply
P0	2286123-3	2286123-3	2305983-3	2102772-4
P1	2286121-3	2286117-3	2305984-3	2305986-3
P2	2286118-3	2286118-3	2305985-3	2305986-3
P3		2286119-3		
P4		2286120-3		
P5		2286117-3		
P6		2286118-3		

* Space VPX PN's listed have 60/40 tin-lead plating. For 93/7 tin-lead use -1.*
* RT 2 or 2-R P0 connector can be used assuming wafers 7 and 8 (diff pairs) do not require higher data rates
These connectors have smaller compliant pins in columns 7 and 8 and RT 2 compliant pins in columns 1-6 (mixed hole pattern)
*RT 3 P0 and J0 (2332816-1 and 2332817-1) have smaller compliant pins in col 7 and 8



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Refer to [Brochure 2-1773457-3](#)



Position Size	Connector and stack height (mm)		Standard Mating Force		Standard Mating Force	
			50 Microinch Gold Mating Interface		30 Microinch Gold Mating Interface	
			Tin-lead BGA	Lead Free BGA	Tin-lead BGA	Lead Free BGA
60	pin connector		2102079-1	2102079-2		
	socket connector	10	2102080-1			
		12	2102080-3			
114	pin connector		2102060-1	2102060-2	2102060-3	2102060-4
	socket connector	10	2102061-1	2102061-2	2102061-5	2102061-6
		12	2102061-3	2102061-4	2102061-7	2102061-8
		15	1-2102061-3	1-2102061-4	1-2102061-5	1-2102061-6
		17	1-2102061-7	1-2102061-8		
		18	2102061-9	1-2102061-0	1-2102061-1	1-2102061-2
320	pin connector		2102429-1			2102429-4
	socket connector	10	2102430-1			2102430-6
		18	2102430-9			1-2102430-2

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Refer to [TE Brochure](#) for most up to date information

	Slot size	Position	Part Type	Contact tail	# High power contacts	# Low power contacts	# Signal contacts (4 rows)	Part No (50 Au interface, Au flash tails)	Part No (30 Au interface, tin pl tails)	Standard	Notes
VITA 62.0	3U	P0	RA Header	solder tail	6	2	32	2317477-1	6450839-7	VITA 62.0	
	3U	P0	RA Header	EON	6	2	32	2314578-2	6450849-7	VITA 62.0	
	3U	J0	Vert Recpt	EON	6	2	32	2309390-1	1-6450869-4	VITA 62.0	
	6U	P0	RA Header	solder tail	7	0	0	2314579-1	6450833-7	VITA 62.0	
	6U	P1	RA Header	solder tail	10	0	36	2314580-1	6450839-6	VITA 62.0	
	6U	P0	RA Header	EON	7	0	0	2314577-1	6450843-6	VITA 62.0	
	6U	P1	RA Header	EON	10	0	36	2314578-1	6450849-6	VITA 62.0	
	6U	J0	Vert Recpt	EON	7	0	0	2314581-1	6450863-5	VITA 62.0	
	6U	J1	Vert Recpt	EON	10	0	36	2309390-2	1-6450869-0	VITA 62.0	



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Refer to [TE Catalog](#) for most up to date information

VITA 67 NanoRF PN Table		Backplane PN		Plug-in Modules		Total # of Contacts	Contacts by Cable Diameter	
Module Size	Backplane PN	Sts Steel	Alum	Sts Steel	Alum			
Half Modules	2828434	2828434-1	2828434-2	2828431-1	2828431-2	8	8	.047"
	(67.3D) Cutout	2332627-1	2332627-2					
	(67.3D) Cutout	N/A	2357971-1	N/A	2357976-1	9	8	.086"
	2313228	2313228-1	2313228-2				1	.047"
	(67.3D) Cutout	2313376-1	2313376-2	2313225-1	2313225-2	12	12	.047"
Full Modules	2828395	2828395-1	2828395-2	2828392-1	2828392-2	16	16	.047"
	(67.3C) Cutout	2341106-1	2341106-2					
	2322337	2322337-1	2322337-2					
	(67.3C) Cutout	2343040-1	2343040-2	2322335-1	2322335-2	18	18	.047"

Contact Kits	Part Number	Cable Dia
Backplane	2302345-1	.047"
	2332772-1	.086"
Plug-in Module	2302339-1	.047"

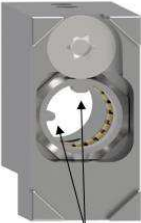
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Guide Pins:										Mating Modules	
			External Thread				Internal Thread				
Description	Pin Length	Thickness	Thread (external)	Thread Type (external)	Rugged (External thread Stainless Steel 303)	Diecast (external thread)	Thread max Depth (Internal)	Thread Type (Internal)	Rugged (internal thread Stainless Steel 303)	Standard (diecast)	Rugged (machined)
Keyed Guide machined	24	1.32	7.25	10-32 UNF	2000676-1		5.67	8-36 UNF	2327906-2	1469492-X	2000713-X
Keyed Guide machined	24	2.60	7.25	10-32 UNF	2000676-2	1-1469491-2	6.95	8-36 UNF	2327906-4	1469492-X	2000713-X
Keyed Guide machined	24	4.20	7.25	10-32 UNF	2000676-3	1-1469491-3	8.55	8-36 UNF	2327906-6	1469492-X	2000713-X
Keyed Guide machined	24	5.70	7.25	10-32 UNF	2000676-4	1-1469491-4	10.05	8-36 UNF	2327906-8	1469492-X	2000713-X
Keyed Guide machined	24	7.30	7.25	10-32 UNF	2000676-5		11.65	8-36 UNF	1-2327906-0	1469492-X	2000713-X
Keyed Guide machined	24	5.70	10.35	10-32 UNF	2000676-6					1469492-X	2000713-X
Keyed Guide machined	24	3.40	9.00	M5 x 0.8 - 6g	2000676-7		7.75	M2 .5X.45	1-2327906-4	1469492-X	2000713-X
Keyed Guide machined	19	3.40	9.00	M5 x 0.8 - 6g	2000676-8		7.75	M2 .5X.45	1-2327906-6	1469492-X	2000713-X
Keyed Guide machined	24	2.40	6.30	M5 x 0.8 - 6g	2000676-9		6.75	M2 .5X.45	1-2327906-8	1469492-X	2000713-X
Keyed Guide machined	19	1.32	7.25	10-32 UNF	1-2000676-0		5.67	8-36 UNF	2-2327906-0	1469492-X	2000713-X
Keyed Guide machined	19	4.20	7.25	10-32 UNF	1-2000676-2		8.55	8-36 UNF	2-2327906-2	1469492-X	2000713-X
Keyed Guide machined	19	5.70	7.25	10-32 UNF	1-2000676-3		10.05	8-36 UNF	2-2327906-4	1469492-X	2000713-X
Keyed Guide machined	24	1.32					5.67	8-32 UNC	2-2327906-6	1469492-X	2000713-X
Keyed Guide machined	24	2.60					6.95	8-32 UNC	2-2327906-8	1469492-X	2000713-X
Keyed Guide machined	24	4.20					8.55	8-32 UNC	3-2327906-0	1469492-X	2000713-X
Keyed Guide machined	24	5.70					10.05	8-32 UNC	3-2327906-2	1469492-X	2000713-X
Keyed Guide machined	24	7.30					11.65	8-32 UNC	3-2327906-4	1469492-X	2000713-X
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-1						2828454-1
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-2						2828454-2
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-3						2828454-3
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-4						2828454-4
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-5						2828454-5
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-6						2828454-6
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-7						2828454-7
VITA 48.4 Clockable	24	5.70	7.25	10-32 UNF	1-2828999-8						2828454-8
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-1						2828454-1
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-2						2828454-2
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-3						2828454-3
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-4						2828454-4
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-5						2828454-5
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-6						2828454-6
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-7						2828454-7
VITA 48.4 Clockable	24	2.60	7.25	10-32 UNF	2828999-8						2828454-8
RTM Guide pin	24	Kit	Kit	Kit	2226127-1	1410956-1				1-1469492-1	2000713-X

Module Keying Option				
VITA	Material	Key orientation (Degrees)	Standard (diecast)	Rugged (machined)
46	Aluminum	0	1-1469492-1	2000713-1
46	Aluminum	45	1-1469492-2	2000713-2
46	Aluminum	90	1-1469492-3	2000713-3
46	Aluminum	270	1-1469492-7	2000713-4
46	Aluminum	315	1-1469492-8	2000713-5
46	Aluminum	Without Keying	1-1469492-9	2000713-6
46	Aluminum	135		1-2000713-4
46	Aluminum	180		1-2000713-5
46	Aluminum	225		1-2000713-6
46	Stainless Steel	0		2000713-7
46	Stainless Steel	45		2000713-8
46	Stainless Steel	90		2000713-9
46	Stainless Steel	270		1-2000713-0
46	Stainless Steel	Without Keying		1-2000713-2
46	Stainless Steel	315		1-2000713-3
48.4	Aluminum	0		2828454-1
48.4	Aluminum	45 or 315		2828454-2
48.4	Aluminum	90 or 270		2828454-3
48.4	Aluminum	135 or 225		2828454-4
48.4	Aluminum	180		2828454-5



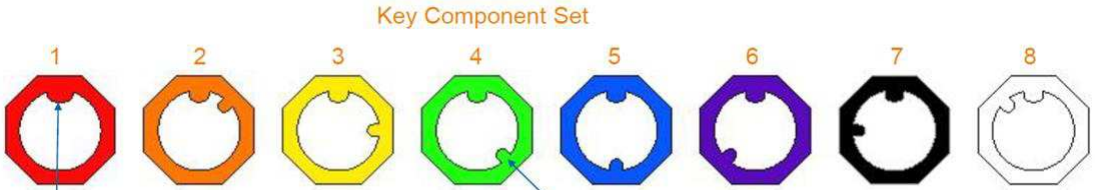
VITA 48.4 Clockable



VITA 46 Key



VITA 48.4 Keying options (used with true half P0 = 2226996-1)



Primary Key:

- Wider primary key on set 1 prevents pins 2-8 from mating to keyway 1

- Allows for 8 clocked positions

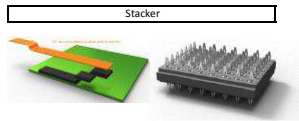
Secondary Key:

- Prevents pin 1 from going into keyways 2-8

- Allows for 8 key sets

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Daughter card Stacker

7 row, 8 column module fits VITA 46 daughter card footprint
Requires .062" min thickness rigid flex

Daughter Card TE Part number = 2102785-1

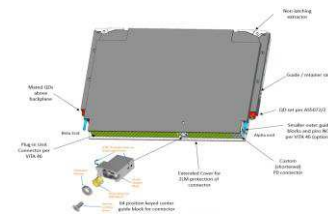
Backplane Stacker

Backplane Stacker in a 9x8 array, fits VPX backplane half module
Backplane TE Part number = **IN DEVELOPMENT (2352497-1)**

Tooling

Daughtercard = 2226504-1, -2, -3
Backplane = 2352498-1

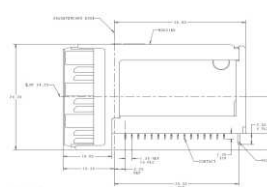
VITA 48.4 Liquid Cooling Extension



Guide hardware listed on "Pin and Module" tab VITA 48.4

PO Connector "True half" allows needed space for Guide Hardware
PO = 2226996-1

MULTIGIG 25.4

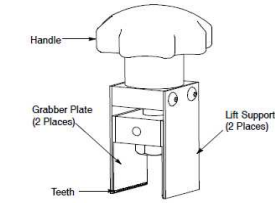


2313245-X RT3 - Center Backplane Connector
2313246-X RT3 - Right End Backplane Connector
2313239-X RT3 - Differential Plug-in Connector
2313240-X RT3 - Differential, Single Ended and Power

Tooling

[Backplane Connector Removal: 408-10127](#)

1901850-1 25.4mm
1901850-2 20.3mm



[Daughtercard Connector Removal: 408-10454](#)

Application Tools
[114-163004 pg 25 of 27](#)

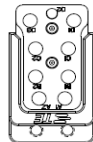
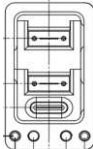
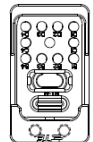
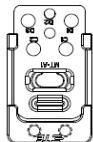
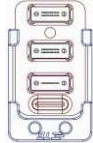
Mezzanine



Mezzanine Conn, 25mm stack height, 16
TE Part number 2226027-1

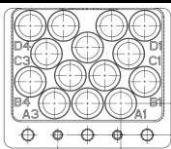
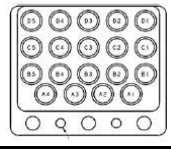
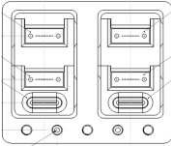
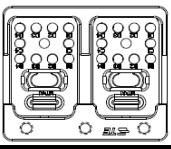
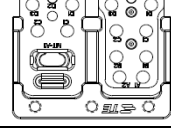
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RF and Optical Modules

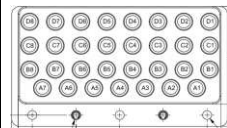
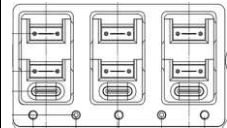
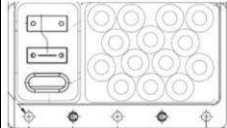
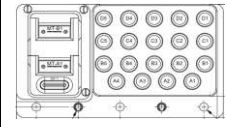
							Plug-in Module					
Module size	VITA 65 Module Designation	Backplane Module Layout		RF contact interface	# RF contacts	# MT's		Connector Module PN	RF Contact PN (.086" cable)	RF Contact PN (.047" cable)	MT Ferrule Kit PN	Optical Plug-In Card Interface
Half module VITA 65 Aperture J Backplane per VITA 67.3D	6.4.5.7.2		NanoRF 9 position	NanoRF	9	-	Plug-In Module	2357976-1	-	2302339-1 (9 ea)	-	-
							Backplane	2357971-1	2332772-1 (8 ea)	2302345-1 (1 ea)	-	-
	6.4.5.7.5		Optical 2 MT	-	-	2	Plug-In Module	2371597-1	-	-	12-fiber: 2355002-1 24-fiber: 2355002-2	2 cabled MT
								2371598-1	-	-	12-fiber: 2355002-1 24-fiber: 2355002-2	1 cabled MT & 1 transceiver
							Backplane	2371602-1			12-fiber: 2332756-1 24-fiber: 2332756-2	
	6.4.5.7.4		NanoRF 10 position, 1 MT	NanoRF	10	1	Plug-In Module	2359410-1	-	2302339-1 (10 ea)	12-fiber: 2355002-1 24-fiber: 2355002-2	cabled MT
								2313388-1			-	transceiver
							Backplane	2313391-1	-	2302345-1 (10 ea)	12-fiber: 2332756-1 24-fiber: 2332756-2	
	6.4.5.7.3		NanoRF 5 position, 1 MT	NanoRF	5	1	Plug-In Module	2359407-1	-	2302339-1 (5 ea)	12-fiber: 2355002-1 24-fiber: 2355002-2	cabled MT
								2358435-1	-	2302339-1 (5 ea)	-	transceiver
							Backplane	2358431-1	2332772-1 (4 ea)	2302345-1 (1 ea)	12-fiber: 2332756-1 24-fiber: 2332756-2	
	6.4.5.7.5		Optical 3 MT	-	-	3	Plug-In Module	2371599-1	-	-	12-fiber: 2355002-1 24-fiber: 2355002-2	3 cabled MT
								2362125-1			12-fiber: 2355002-1 24-fiber: 2355002-2	2 cabled MT & 1 transceiver
							Backplane	2362124-1	-	-	12-fiber: 2332756-1 24-fiber: 2332756-2	

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							Plug-in Module							
Module size	VITA 65 Module Designation	Backplane Module Layout		RF contact interface	# RF contacts	# MT's		Connector Module PN	RF Contact PN (.086" cable)	RF Contact PN (.047" cable)	MT Ferrule Kit PN	Optical Plug-In Card Interface		
Full module VITA 65 Aperture H Backplane per VITA 67.3C	6.4.5.6.4		RF	SMPM	14	-	Plug-In Module	2332829-3		2157248-1	-	-		
							Backplane	2332827-2	1996390-1	1996771-1	-			
	6.4.5.6.6		RF	SMPS	19		Plug-In Module	Not available		Not available				
							Backplane	Not available		Not available	-	-		
	6.4.5.6.5		Optical	-	-	4	Plug-In Module	2371597-1 (2 ea)	-	-	12-fiber: 2355002-1	2 cabled MT per insert		
								2371598-1 (2 ea)			12-fiber: 2355002-1		1 cabled MT & 1 transceiver per insert	
							Backplane	2371603-1			24-fiber: 2355002-2			
											12-fiber: 2332756-1			
											24-fiber: 2332756-2			
											6.4.5.6.7		RF+Optical	NanoRF
	2313388-1 (2 ea)	24-fiber: 2355002-2												
	Backplane	2363793-1			-	transceiver								
					12-fiber: 2332756-1									
	24-fiber: 2332756-2													
	6.4.5.6.8		RF+Optical	NanoRF	14	1	Plug-In Module	2359407-1 + 2357976-1	-	2302339-1 (14 ea)	12-fiber: 2355002-1	cabled MT		
								2358435-1 + 2357976-1			24-fiber: 2355002-2			
							Backplane	2365231-1			-	transceiver		
											12-fiber: 2332756-1			
											24-fiber: 2332756-2			

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								Plug-in Module														
Module size	VITA 65 Module Designation	Backplane Module Layout		RF contact interface	# RF contacts	# MT's		Connector Module PN	RF Contact PN (.086" cable)	RF Contact PN (.047" cable)	MT Ferrule Kit PN	Optical Plug-In Card Interface										
1.5 module width VITA 65 Aperture K Backplane per VITA 67.3E	6.4.5.8.4		RF	SMPS	31	-	Plug-In Module	Not available		Not available	-	-										
							Backplane	Not available		Not available												
	6.4.5.8.6		Optical	-	-	6	Plug-In Module	TBD	-	-	12-fiber: 2355002-1	2 cabled MT per insert										
								TBD			24-fiber: 2355002-2		12-fiber: 2355002-1	1 cabled MT & 1 transceiver per insert								
							Backplane	TBD	-	-	12-fiber: 2332756-1											
											24-fiber: 2332756-2											
											6.4.5.8.2		RF+Optical	SMPM	14	2	Plug-In Module	Not available	-	2157248-1	12-fiber: 2355002-1	2 cabled MT
																		Not available			24-fiber: 2355002-2	
	Backplane	Not available	1996390-1	1996771-1	12-fiber: 2332756-1																	
					24-fiber: 2332756-2																	
					6.4.5.8.5		RF+Optical	SMPS	19	2							Plug-In Module	Not available	Not available	Not available	12-fiber: 2355002-1	2 cabled MT
																		Not available			24-fiber: 2355002-2	
	Backplane	Not available	Not available	Not available							12-fiber: 2332756-1											
											24-fiber: 2332756-2											

TOOLING:

2101595-1	SMPM jack insertion/extraction tool (use on 1996390-1, 1996771-1)
2161640-1	SMPM plug extraction tool (use on 2157248-1)

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