

FSP 3000CC modules

Release	Name	Module	8G FC	10G FC	16G FC	32G FC	1xIFB	CE LR	10GbE	25GbE	RoCE
<b>23.1.1 (6.1.2)</b>											
	OpenFab	MA-2C5LT	X		X	X			X	X	X
	CryptoMux	MA-2C2C3LT-A	X		X	X			X	X	X
	OpenFab	MA-B5LT	X		X	X			X	X	X
	OpenFab+	MA-B2C3LT-A	X		X	X			X	X	X
	CryptoMux+	MA-2C5LT	X		X	X			X	X	X
	S-Flex	SF-D19DCT			X	X		X	X		X
	S-Flex AES	SF-D19DCT-A			X	X		X	X		X
<b>22.5.2 / 22.5.3 (5.5.1 / 5.5.2)</b>											
	OpenFab	MA-2C5LT	X		X	X			X	X	X
	CryptoMux	MA-2C2C3LT-A	X		X	X			X	X	X
	OpenFab	MA-B5LT	X		X	X			X	X	X
	OpenFab+	MA-B2C3LT-A	X		X	X			X	X	X
	CryptoMux+	MA-2C5LT	X		X	X			X	X	X
	S-Flex	SF-D19DCT			X	X		X	X		X
	S-Flex AES	SF-D19DCT-A			X	X		X	X		X
<b>22.1.1 / 22.1.3</b>											
	OpenFab	MA-2C5LT	X		X	X			X	X	X
	CryptoMux	MA-2C2C3LT-A	X		X	X			X	X	X
	OpenFab+	MA-B5LT	X		X	X			X	X	X
	CryptoMux+	MA-B2C3LT-A	X		X	X			X	X	X
	QuadFlex*	MP-2B4CT									

21.1.1										
OpenFab	MA-2C5LT	X		X	X		X	X	X	
CryptoMux	MA-2C2C3LT-A	X		X	X		X	X	X	
OpenFab+	MA-B5LT	X		X	X		X	X	X	
CryptoMux+	MA-B2C3LT-A	X		X	X		X	X	X	
QuadFlex*	MP-2B4CT									
TeraFlex*	MP-2D12CT									
19.3.2										
OpenFab	MA-2C5LT	X		X	X		X	X	X	
CryptoMux	MA-2C2C3LT-A	X		X	X		X	X	X	
OpenFab+	MA-B5LT	X		X	X		X	X	X	
CryptoMux+	MA-B2C3LT-A	X		X	X		X	X	X	
QuadFlex*	MP-2B4CT									
TeraFlex*	MP-2D12CT									
19.3.1										
OpenFab	MA-2C5LT	X		X	X		X	X	X	
CryptoMux	MA-2C2C3LT-A	X		X	X		X	X	X	
OpenFab+	MA-B5LT	X		X	X		X	X	X	
CryptoMux+	MA-B2C3LT-A	X		X	X		X	X	X	
QuadFlex*	MP-2B4CT									
TeraFlex*	MP-2D12CT									
19.1.2										
OpenFab	MA-2C5LT	X		X	X		X	X	X	
CryptoMux	MA-2C2C3LT-A	X		X	X		X	X	X	
OpenFab+	MA-B5LT	X		X	X		X	X	X	
CryptoMux+	MA-B2C3LT-A	X		X	X		X	X	X	
QuadFlex*	MP-2B4CT									
TeraFlex*	MP-2D12CT									
17.2.2 / 17.2.3 / 17.2.4										

OpenFab	MA-2C5LT		X		X	X	X
QuadFlex*	MP-2B4CT						
<b>17.1.1</b>							
OpenFab	MA-2C5LT		X		X		X
QuadFlex*	MP-2B4CT						

\* QuadFlex and TeraFlex modules are used only as a transport modules only. They were used for transporting/multiplexing OTU-4 based signals coming from various FSP3000 and FSP 3000CC modules.

FSP 3000

Release	Family	Module	4G FC	8G FC	10G FC	16G FC	32G FC	ISC-3	1xIFB	CE LR	10GbE	25GbE	RoCE
<b>23.1.1</b>													
	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X				X		X		
	5TCE	5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X				X		X		
	5TCE	5TCE-PCN-10GU+10G	X	X	X				X		X		
	5TCE	5TCE-PCN-10GU+AES10G	X	X	X				X		X		
	10TCE	10TCE-PCN-16GU+100G		X	X	X			X	X	X		X
	10TCE	10TCE-PCN-16GU+AES100G		X	X	X			X	X	X		X
	10TCE	10TCE-PCN-16GU+AES100G-BSI		X	X	X			X	X	X		X
	10TCE	10TCE-PCN-16GU+AES100G-F		X	X	X			X	X	X		X
	4TCC	4TCC-PCN-32GU+AES100G					X						
	4TCC	4TCC-PCN-32GU+AES100G-G					X						
	9TCE	9TCE-PCN-10GU+AES10G-F		X						X	X		X
	9TCE	9TCE-PCN-10GU+AES10G-G		X						X	X		X
	9TCE	9TCE-PCN-10GU+AES10G	X	X						X	X		X
	9TCE	9TCE-PCN-10GU+10G	X	X						X	X		X
	4TCA	4TCA-PCN-4GU+4G	X										
	2WCA	2WCA-PCN-10G	X	X	X						X		X
	5WCA	5WCA-PCN-16GU		X		X			X	X	X		X

	6WCA	6WCA-PCN-28GU	X	X		X			X		X	X	X
Protection	RSM	RSM-OLM#1630	X	X	X	X	X		X	X	X		X
	OPPM	OPPM	X	X	X	X	X		X	X	X		X
	CCCP	1PM, 2PM, Y-Cable	X	X	X	X	X		X	X	X		X
		10TCE and 5TCE family only											

22.5.2 / 22.5.3

5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X				X		X		
	5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X				X		X		
	5TCE-PCN-10GU+10G	X	X	X				X		X		
	5TCE-PCN-10GU+AES10G	X	X	X				X		X		
10TCE	10TCE-PCN-16GU+100G		X	X	X			X	X	X		X
	10TCE-PCN-16GU+AES100G		X	X	X			X	X	X		X
	10TCE-PCN-16GU+AES100G-BSI		X	X	X			X	X	X		X
	10TCE-PCN-16GU+AES100G-F		X	X	X			X	X	X		X
4TCC	4TCC-PCN-32GU+AES100G						X					
	4TCC-PCN-32GU+AES100G-G						X					
9TCE	9TCE-PCN-10GU+AES10G-F		X						X	X		X
	9TCE-PCN-10GU+AES10G-G		X						X	X		X
	9TCE-PCN-10GU+AES10G	X	X						X	X		X
	9TCE-PCN-10GU+10G	X	X						X	X		X
4TCA	4TCA-PCN-4GU+4G	X										
2WCA	2WCA-PCN-10G	X	X	X						X		X
5WCA	5WCA-PCN-16GU		X		X			X	X	X		X
6WCA	6WCA-PCN-28GU	X	X		X				X	X	X	X

	RSM	RSM-OLM#1630	X	X	X	X	X		X	X	X		X
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OPPM	OPPM	X	X	X	X	X		X	X		X	X
CCCP	1PM, 2PM, Y-Cable 10TCE and 5TCE family only	X	X	X	X	X		X	X		X	X

Release	Family	Module	4G FC	8G FC	10G FC	16G FC	32G FC	ISC-3	1xIFB	CE LR	10GbE	25GbE	RoCE
22.1.1 / 22.1.3													
	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X				X		X		
		5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X				X		X		
		5TCE-PCN-10GU+10G	X	X	X				X		X		
		5TCE-PCN-10GU+AES10G	X	X	X				X		X		
	10TCE	10TCE-PCN-16GU+100G		X	X	X			X	X	X		X
		10TCE-PCN-16GU+AES100G		X	X	X			X	X	X		X
		10TCE-PCN-16GU+AES100G-BSI		X	X	X			X	X	X		X
		10TCE-PCN-16GU+AES100G-F		X	X	X			X	X	X		X
	4TCC	4TCC-PCN-32GU+AES100G					X						
		4TCC-PCN-32GU+AES100G-G					X						
	9TCE	9TCE-PCN-10GU+AES10G-F		X						X	X		X
		9TCE-PCN-10GU+AES10G-G		X						X	X		X
		9TCE-PCN-10GU+AES10G		X						X	X		X
		9TCE-PCN-10GU+10G		X						X	X		X
	4TCA	4TCA-PCN-4GU+4G	X										
	2WCA	2WCA-PCN-10G	X	X	X						X		X
	5WCA	5WCA-PCN-16GU		X		X			X	X	X		X
	6WCA	6WCA-PCN-28GU	X	X		X				X	X	X	X

Protection	RSM	RSM-OLM#1630	X	X	X	X	X		X	X	X	X
	OPPM	OPPM	X	X	X	X	X		X	X	X	X
	CCCP	1PM, 2PM, Y-Cable	X	X	X	X	X		X	X	X	X
		10TCE and 5TCE family only										
<b>21.1.1</b>												
5TCE	5TCE-PCTN-10GU+10G-xx#Dy		X	X	X				X		X	
	5TCE-PCTN-10GU+AES10G-xx#Dy		X	X	X				X		X	
	5TCE-PCN-10GU+10G		X	X	X				X		X	
	5TCE-PCN-10GU+AES10G		X	X	X				X		X	
10TCE	10TCE-PCN-16GU+100G			X	X	X			X	X	X	X
	10TCE-PCN-16GU+AES100G			X	X	X			X	X	X	X
	10TCE-PCN-16GU+AES100G-BSI			X	X	X			X	X	X	X
	10TCE-PCN-16GU+AES100G-F			X	X	X			X	X	X	X
4TCC	4TCC-PCN-32GU+AES100G							X				
	4TCC-PCN-32GU+AES100G-G							X				
9TCE	9TCE-PCN-10GU+AES10G-F			X					X		X	X
	9TCE-PCN-10GU+AES10G-G			X					X		X	X
	9TCE-PCN-10GU+AES10G			X					X		X	X
	9TCE-PCN-10GU+10G			X					X		X	X
4TCA	4TCA-PCN-4GU+4G		X									
2WCA	2WCA-PCN-10G		X	X	X						X	X
5WCA	5WCA-PCN-16GU			X		X			X	X	X	X
Protection	RSM	RSM-OLM#1630	X	X	X	X	X		X	X	X	X
	OPPM	OPPM	X	X	X	X	X		X	X	X	X
	CCCP	1PM, 2PM, Y-Cable	X	X	X	X	X		X	X	X	X
		10TCE and 5TCE family only										
<b>19.3.2</b>												
5TCE	5TCE-PCTN-10GU+10G-xx#Dy		X	X	X				X		X	

	5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X			X		X		
	5TCE-PCN-10GU+10G	X	X	X			X		X		
	5TCE-PCN-10GU+AES10G	X	X	X			X		X		
10TCE	10TCE-PCN-16GU+100G		X	X	X		X	X	X	X	
	10TCE-PCN-16GU+AES100G		X	X	X		X	X	X	X	
	10TCE-PCN-16GU+AES100G-BSI		X	X	X		X	X	X	X	
	10TCE-PCN-16GU+AES100G-F		X	X	X		X	X	X	X	
4TCC	4TCC-PCN-32GU+AES100G					X					
	4TCC-PCN-32GU+AES100G-G					X					
9TCE	9TCE-PCN-10GU+AES10G-F		X					X	X	X	
	9TCE-PCN-10GU+AES10G-G		X					X	X	X	
	9TCE-PCN-10GU+AES10G		X					X	X	X	
	9TCE-PCN-10GU+10G		X					X	X	X	
4TCA	4TCA-PCN-4GU+4G	X									
2WCA	2WCA-PCN-10G	X	X	X					X	X	
5WCA	5WCA-PCN-16GU		X		X		X	X	X		
Protection	RSM	RSM-OLM#1630	X	X	X	X	X	X	X	X	X
	OPPM	OPPM	X	X	X	X	X	X	X	X	X
	CCCP	1PM, 2PM, Y-Cable	X	X	X	X	X	X	X	X	X
		10TCE and 5TCE family only									

Release	Family	Module	4G FC	8G FC	10G FC	16G FC	ISC-3	1xIFB	CE LR	10GbE	RoCE
19.3.1											
	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X			X		X	
		5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X			X		X	
		5TCE-PCN-10GU+10G	X	X	X			X		X	
		5TCE-PCN-10GU+AES10G	X	X	X			X		X	
	10TCE	10TCE-PCN-16GU+100G		X	X	X		X	X	X	X
		10TCE-PCN-16GU+AES100G		X	X	X		X	X	X	X

		10TCE-PCN-16GU+AES100G-BSI		X	X	X		X	X		X	X
		10TCE-PCN-16GU+AES100G-F		X	X	X		X	X		X	X
	9TCE	9TCE-PCN-10GU+AES10G-F		X				X			X	X
		9TCE-PCN-10GU+AES10G-G		X				X			X	X
		9TCE-PCN-10GU+AES10G		X				X			X	X
		9TCE-PCN-10GU+10G		X				X			X	X
	4TCA	4TCA-PCN-4GU+4G	X									
	2WCA	2WCA-PCN-10G	X	X	X						X	X
	5WCA	5WCA-PCN-16GU		X		X		X	X		X	
Protection	RSM	RSM-OLM#1630	X	X	X	X		X	X		X	X
	OPPM	OPPM	X	X	X	X		X	X		X	X
	CCCP	1PM, 2PM, Y-Cable	X	X	X	X		X	X		X	X
		10TCE and 5TCE family only										
19.1.2												
	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X			X			X	
		5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X			X			X	
		5TCE-PCN-10GU+10G	X	X	X			X			X	
		5TCE-PCN-10GU+AES10G	X	X	X			X			X	
	10TCE	10TCE-PCN-16GU+100G		X	X	X		X	X		X	X
		10TCE-PCN-16GU+AES100G		X	X	X		X	X		X	X
		10TCE-PCN-16GU+AES100G-BSI		X	X	X		X	X		X	X
		10TCE-PCN-16GU+AES100G-F		X	X	X		X	X		X	X
	9TCE	9TCE-PCN-10GU+AES10G-F		X				X			X	X
		9TCE-PCN-10GU+AES10G-G		X				X			X	X
	4TCA	4TCA-PCN-4GU+4G	X									
	2WCA	2WCA-PCN-10G	X	X	X						X	X
	5WCA	5WCA-PCN-16GU		X		X		X	X		X	
Protection	RSM	RSM-OLM#1630	X	X	X	X		X	X		X	X
	OPPM	OPPM	X	X	X	X		X	X		X	X

	CCCP	1PM, 2PM, Y-Cable 10TCE and 5TCE family only	X	X	X	X		X	X	X	X
<b>17.2.2 / 17.2.3 / 17.2.4</b>											
	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X			X		X	
		5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X			X		X	
		5TCE-PCN-10GU+10G	X	X	X			X		X	
		5TCE-PCN-10GU+AES10G	X	X	X			X		X	
	10TCE	10TCE-PCN-16GU+100G		X	X	X		X	X	X	X
		10TCE-PCN-16GU+AES100G		X	X	X		X	X	X	X
		10TCE-PCN-16GU+AES100G-BSI		X	X	X		X	X	X	X
		10TCE-PCN-16GU+AES100G-F		X	X	X		X	X	X	X
	9TCE	9TCE-PCN-10GU+AES10G-F		X					X	X	X
	4TCA	4TCA-PCN-4GU+4G	X								
	2WCA	2WCA-PCN-10G	X	X	X					X	X
	5WCA	5WCA-PCN-16GU		X		X		X	X	X	
Protection	RSM	RSM-OLM#1630	X	X	X	X		X	X	X	X
	OPPM	OPPM	X	X	X	X		X	X	X	X
	CCCP	1PM, 2PM, Y-Cable	X	X	X	X		X	X	X	X
		5TCE family only									
<b>17.1.1</b>											
	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X			X		X	
		5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X			X		X	
		5TCE-PCN-10GU+10G	X	X	X			X		X	
		5TCE-PCN-10GU+AES10G	X	X	X			X		X	
	10TCE	10TCE-PCN-16GU+100G		X	X	X		X	X	X	X
		10TCE-PCN-16GU+AES100G		X	X	X		X	X	X	X
		10TCE-PCN-16GU+AES100G-BSI		X	X	X		X	X	X	X
	4TCA	4TCA-PCN-4GU+4G	X								
	2WCA	2WCA-PCN-10G	X	X	X					X	X

	5WCA	5WCA-PCN-16GU		X		X		X	X		X	
Protection	RSM	RSM-OLM#1630	X	X	X	X		X	X		X	X
	OPPM	OPPM	X	X	X	X		X	X		X	X
	CCCP	1PM, 2PM, Y-Cable	X	X	X	X		X	X		X	X
		10TCE and 5TCE family only										

16.1.3 / 16.1.4

5TCE	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X		X	X		X		
	5TCE	5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X		X	X		X		
	5TCE	5TCE-PCN-10GU+10G	X	X	X		X	X		X		
	5TCE	5TCE-PCN-10GU+AES10G	X	X	X		X	X		X		
10TCE	10TCE	10TCE-PCN-16GU+100G		X	X	X		X	X		X	X
	10TCE	10TCE-PCN-16GU+AES100G		X	X	X		X	X		X	X
	10TCE	10TCE-PCN-16GU+AES100G-BSI		X	X	X		X	X		X	X
4TCA	4TCA	4TCA-PCN-4GU+4G	X				X					
2WCA	2WCA	2WCA-PCN-10G	X	X	X						X	X
4WCE	4WCE	4WCE-PCN-16GFC		X		X					X	X
5WCA	5WCA	5WCA-PCN-16GU		X		X		X			X	
RSM	RSM	RSM-OLM#1630	X	X	X	X		X	X	X	X	X
OPPM	OPPM	OPPM	X	X	X	X		X	X	X	X	X

13.2.2

5TCE	5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X		X	X		X		
	5TCE	5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X		X	X		X		
	5TCE	5TCE-PCN-10GU+AES10G	X	X	X		X	X		X		
10TCE	10TCE	10TCE-PCN-10G+100G		X							X	
	10TCE	10TCE-PCN-16GU+100G		X	X	X		X			X	
	10TCE	10TCE-PCN-16GU+AES100G		X	X	X		X			X	
4TCA	4TCA	4TCA-PCN-4GU+4G	X				X					
2WCA	2WCA	2WCA-PCN-10G	X	X	X						X	
4WCE	4WCE	4WCE-PCN-16GFC		X		X					X	

5WCA	5WCA-PCN-16GU		X		X		X		X
RSM	RSM-OLM#1630	X	X	X	X	X	X	X	X
<b>11.2.3</b>									
5TCE	5TCE-PCTN-10GU+10G-xx#Dy	X	X	X		X	X		X
	5TCE-PCTN-10GU+AES10G-xx#Dy	X	X	X		X	X		X
10TCE	10TCE-PCN-10G+100G		X						X
4TCA	4TCA-PCN-4GU+4G	X				X			
WCA-PC	WCA-PC-10G-V#Dxx	X	X	X			X		X
2WCA	2WCA-PCN-10G	X	X	X					X
4WCE	4WCE-PCN-16GFC		X		X				X
RSM	RSM-OLM#1630	X	X	X	X	X	X	X	X

Notes:

- RoCE is for SMC-R use
- FICON is supported via cascaded directors (ISL)
- For dispersion compensation, only 'Fiber Bragg Grating' based compensation is supported
- RSM and OPPM based protection/restoration is available for all modules
- For special features like e.g. frame based trunking, please contact your Adtran representative for support and technical guidance

**The official IBM qualification letter is available on request, please use the web form.**