





Specification		Model		Model		Model		Model	
									
		FRM220-10G-SS	FRM220-10G-SXX	FRM220-16G-3R	FRM220-16G-3R	FRM220-40G-1Q4S	FRM220-40G-1Q4S	FRM220-40G-1Q4S	FRM220-40G-1Q4S
Description		10G Transponder (3R)		10G Transponder (3R)		16G Transponder (3R)		40G Transponder (3R)	
Fiber interface	QSFP							1-port	
	SFP								
	SFP+	2-ports		1-ports		4-ports		4-ports	
	XFP		2-ports						
	Connector Type	LC		LC		LC		LC / MPO	
Power	Power types	12VDC		12VDC		12VDC		12VDC	
Front Panel	Diagnostic LEDs	V		V		V		V	
Console Interface RS-232		via FRM220-CH02M chassis							
Power	1+1 Redundant fiber protection			V		V			
	service channel per card	1ch		1ch		2ch		1ch QSFP and 4ch SFP+	
	Loop back test	V		V		V		V	
	Auto Laser Shutdown (ALS)	V		V		V		V	
	SNMP, Telnet management	via FRM220 chassis		via FRM220 chassis		via FRM220 chassis		via FRM220 chassis	
	Web management	via FRM220 chassis		via FRM220 chassis		via FRM220 chassis		via FRM220 chassis	
	TFTP f/w upgrade	V		V		V		V	
P R O T O C O L	16G FC	14.025 Gbps				V			V
	10G FC OTU2	11.31684 Gbps			V				V
	10GE OTU2e	11.09573 Gbps			V				V
	10GE OTU1e	11.04911 Gbps							V
	STM64 OTU2	10.70923 Gbps	V		V				V
	10G FC	10.5180 Gbps	V		V				V
	10GE ODU2e	10.39953 Gbps							V
	10GE ODU1e	10.35583 Gbps							V
	10GE	10.3125 Gbps	V		V				V
	CPRI x20	10.137 Gbps							V
	STM64 ODU2	10.03728 Gbps							V
	OC192/STM64	9.95328 Gbps	V		V				V
	CPRI x16	9.8304 Gbps			V				V
	8G FC	8.5 Gbps	V		V				V
	OBSAI x8 / CPRI x 10	6.144 Gbps							V
	CPRI x8	4.9152 Gbps							V
	4G FC	4.25 Gbps	V		V				V
	OBSAI x4 / CPRI x5	3.072 Gbps							V
	3G-SDI	2.970 Gbps							V
	STM16 OTU1	2.66606 Gbps							V
	STM16 ODU1	2.49878 Gbps							V
	OC48 / STM16	2.48832 Gbps							V
	CPRI x4	2.4576 Gbps							V
	2G FC	2.125 Gbps	V		V				V
	OBSAI x2	1.536 Gbps							V
	HD-SDI	1.485 Gbps							V
	1GE	1.25 Gbps	V		V				V
	OC24	1.24416 Gbps							V
	CPRI x2	1.2288 Gbps							V
	1G FC	1.0625 Gbps			V				V
OBSAI x1	768 Mbps							V	
OC12 / STM4	622.08 Mbps							V	
CPRI x1	614.4 Mbps							V	
Dimension (D x W x H) mm		155 x 88 x 23		155 x 88 x 23		155 x 88 x 23		155 x 88 x 46	