

Slide-in Card vs Standalone Chassis Compatible Table

Card Name	Product Name	Page	FRM220-CH20	FRM220A-CH20	CH08	CH02M	CH02M-2
FRM220-NMC	Network Management Controller	2-3	✓		✓		
FRM220A-GSW/SNMP	Gigabit Ethernet Aggregate Switch Card	2-5		✓			
FRM220-10G-SXX	10G 3R Transponder SFP+ to XFP Fiber Protection	2-11	✓		✓	✓	
FRM220-10G-SS	10G 3R Transponder SFP+ to SFP+	2-12	✓		✓	✓	
FRM220-4G-3S	4G Multi-Rate 2R Transponder SFP to SFP Fiber Protection	2-13	✓		✓	✓	
FRM220-2.7G-3S	2.7G Multi-Rate 3R Transponder SFP to SFP Fiber Protection	2-14	✓		✓	✓	
FRM220-1000DS	1000Base-X to 1000Base-X SFP media converter	2-15	✓		✓		
FRM220-10GE-TS	10G Ethernet Converter 10G Base-T to SFP+	2-16	✓		✓	✓	
FRM220-10GE-TX	10G Ethernet Converter 10G Base-T to XFP	2-17	✓		✓	✓	
FRM220-MD40	4-Ch CWDM Mux/Demux (1551, 1571, 1591, 1611)nm	2-18	✓		✓		
FRM220-MD80	8-Ch CWDM Mux/Demux (1471 ~ 1611)nm	2-18	✓		✓		
FRM220-MD40 WA/WB	4-Ch single fiber CWDM MUX/DEMUX	2-19	✓		✓		
FRM220-MD80 WA/WB	8-Ch single fiber CWDM MUX/DEMUX	2-19	✓		✓		
FRM220-Protection	1+1 Fiber Optical Protection Switch	2-20	✓		✓	✓	✓
FRM220-MX210	2-Port Gigabit Ethernet Multiplexer	2-21	✓		✓	✓	
FRM220-1000M	10/100/1000Base-T to 1000Base-X Web Smart OAM/IP Managed Converter	2-22	✓		✓	✓	✓
FRM220-1000MS	10/100/1000Base-T to 100/1000Base-X SFP Web Smart OAM/IP Managed Converter	2-23	✓		✓	✓	✓
FRM220-1000EAS/X-1	OAM/IP-Based Managed Gigabit Ethernet Media Converter	2-24	✓		✓	✓	✓
FRM220-10/100i	10/100Base-TX to 100Base-FX In-band Managed Converter	2-25	✓		✓	✓	✓
FRM220-10/100iS	10/100Base-TX to 100Base-FX SFP In-band Managed Converter	2-26	✓		✓	✓	✓
FRM220-10/100iS-2	Dual Channels 10/100Base-TX to 100Base-FX SFP Media Converter	2-27	✓		✓	✓	
FRM220A-1000EAS/X	2-Port 10/100/1000Base-T + 2-Port 1000Base-X OAM/IP Managed Switch	2-28	✓	✓	✓	✓	
FRM220A-1002ES	Hardened Gigabit Ethernet Managed Switch	2-30	✓	✓	✓	✓	
FRM220A-FSW103	3x 10/100Base-TX + 100Base-FX Managed Converter	2-31	✓	✓	✓	✓	✓
FRM220-DS3/E3	DS3/E3 over Fiber	2-32	✓		✓	✓	✓
FRM220-ET100	Ethernet over E1 Fiber Modem	2-33	✓		✓	✓	✓
FRM220-Data	V.35/X.21/RS530/449/232 Fiber Modem	2-34	✓		✓	✓	✓
FRM220-E1/T1	E1/T1 Fiber Modem	2-35	✓		✓	✓	✓
FRM220-Serial	RS485/232 Media Converter	2-36	✓		✓	✓	✓
FRM220-FXO/FXS-4	4xPOTS over Fiber	2-37	✓		✓	✓	✓
FRM220-FXO/FXS	POTS over Fiber	2-38	✓		✓	✓	✓
FRM220A-Eoe1	Ethernet Bridge over E1	2-39	✓	✓	✓	✓	✓
FRM220A-Eoe1/G	Ethernet Bridge over E1 (GFP)	2-40	✓	✓	✓	✓	✓
FRM220-E1/Data	E1 to Data	2-43	✓		✓	✓	✓
FRM220-FTEC	E1/T1 Cross Rate Converter	2-44	✓		✓	✓	✓
FRM220A-iMux4	Ethernet to 4 E1 Mux NIC	2-45	✓	✓	✓	✓	✓
FRM220A-iMux8	Ethernet to 8 E1 Mux NIC	2-46	✓	✓	✓	✓	✓
FRM220A-iMux16	Ethernet to 16 E1 Mux NIC	2-47	✓	✓	✓	✓	✓
FRM220-GFOM04	4-Port E1/T1+10/100/1000M Ethernet Fiber Multiplexer	2-48	✓		✓	✓	
FRM220-FOM04	4-Port E1/T1+100M Ethernet Fiber Multiplexer	2-49	✓		✓	✓	✓
FRM220-FOM01	E1/T1+100M Ethernet Fiber Multiplexer	2-50	✓		✓	✓	✓

Power Type vs Standalone Chassis Compatible Table

Power Type (option)	AC: AC Power	DC: DC Power		AC, DC	AC, DC	AC, DC
	AD: AC+DC Power	AA: AC+AC Power	DD: DC+DC Power	AD, AA, DD	AD, AA, DD	AD, AA, DD

Slide-in Card vs Standalone Chassis Compatible Table

Card Name	Product Name	Page	CH02/NMC (SNMP)	CH02	CH01	CH01M
FRM220-NMC	Network Management Controller	2-3	✓			
FRM220A-GSW/SNMP	Gigabit Ethernet Aggregate Switch Card	2-5				
FRM220-10G-SXX	10G 3R Transponder SFP+ to XFP Fiber Protection	2-11	✓			
FRM220-10G-SS	10G 3R Transponder SFP+ to SFP+	2-12	✓			
FRM220-4G-3S	4G Multi-Rate 2R Transponder SFP to SFP Fiber Protection	2-13	✓		✓	✓
FRM220-2.7G-3S	2.7G Multi-Rate 3R Transponder SFP to SFP Fiber Protection	2-14	✓			
FRM220-1000DS	1000Base-X to 1000Base-X SFP media converter	2-15	✓			✓
FRM220-10GE-TS	10G Ethernet Converter 10G Base-T to SFP+	2-16	✓			
FRM220-10GE-TX	10G Ethernet Converter 10G Base-T to XFP	2-17	✓			
FRM220-MD40	4-Ch CWDM Mux/Demux (1551, 1571, 1591, 1611)nm	2-18			✓	
FRM220-MD80	8-Ch CWDM Mux/Demux (1471 ~ 1611)nm	2-18		✓		
FRM220-MD40 WA/WB	4-Ch single fiber CWDM MUX/DEMUX	2-19			✓	
FRM220-MD80 WA/WB	8-Ch single fiber CWDM MUX/DEMUX	2-19		✓		
FRM220-Protection	1+1 Fiber Optical Protection Switch	2-20	✓			✓
FRM220-MX210	2-Port Gigabit Ethernet Multiplexer	2-21			✓	✓
FRM220-1000M	10/100/1000Base-T to 1000Base-X Web Smart OAM/IP Managed Converter	2-22	✓		✓	✓
FRM220-1000MS	10/100/1000Base-T to 100/1000Base-X SFP Web Smart OAM/IP Managed Converter	2-23	✓		✓	✓
FRM220-1000EAS/X-1	OAM/IP-Based Managed Gigabit Ethernet Media Converter	2-24			✓	✓
FRM220-10/100i	10/100Base-TX to 100Base-FX In-band Managed Converter	2-25	✓		✓	✓
FRM220-10/100iS	10/100Base-TX to 100Base-FX SFP In-band Managed Converter	2-26	✓		✓	✓
FRM220-10/100iS-2	Dual Channels 10/100Base-TX to 100Base-FX SFP Media Converter	2-27	✓		✓	✓
FRM220A-1000EAS/X	2-Port 10/100/1000Base-T + 2-Port 1000Base-X OAM/IP Managed Switch	2-28			✓	✓
FRM220A-1002ES	Hardened Gigabit Ethernet Managed Switch	2-30	✓			✓
FRM220A-FSW103	3x 10/100Base-TX + 100Base-FX Managed Converter	2-31	✓			✓
FRM220-DS3/E3	DS3/E3 over Fiber	2-32	✓			✓
FRM220-ET100	Ethernet over E1 Fiber Modem	2-33	✓		✓	✓
FRM220-Data	V.35/X.21/RS530/449/232 Fiber Modem	2-34	✓		✓	✓
FRM220-E1/T1	E1/T1 Fiber Modem	2-35	✓		✓	✓
FRM220-Serial	RS485/232 Media Converter	2-36	✓		✓	✓
FRM220-FXO/FXS-4	4x POTS over Fiber	2-37	✓			✓
FRM220-FXO/FXS	POTS over Fiber	2-38	✓		✓	✓
FRM220A-Eoe1	Ethernet Bridge over E1	2-39	✓		✓	✓
FRM220A-Eoe1/G	Ethernet Bridge over E1 (GFP)	2-40	✓		✓	✓
FRM220-E1/Data	E1 to Data	2-43	✓		✓	✓
FRM220-FTEC	E1/T1 Cross Rate Converter	2-44	✓			✓
FRM220A-iMux4	Ethernet to 4 E1 Mux NIC	2-45	✓		✓	✓
FRM220A-iMux8	Ethernet to 8 E1 Mux NIC	2-46	✓		✓	✓
FRM220A-iMux16	Ethernet to 16 E1 Mux NIC	2-47		✓		
FRM220-GFOM04	4-Port E1/T1+10/100/1000M Ethernet Fiber Multiplexer	2-48				
FRM220-FOM04	4-Port E1/T1+100M Ethernet Fiber Multiplexer	2-49		✓		
FRM220-FOM01	E1/T1+100M Ethernet Fiber Multiplexer	2-50	✓			✓

Power Type vs Standalone Chassis Compatible Table

Power Type (option)	DC12: AC Adapter AD: AC+DC Power	AC: AC Power AA: AC+AC Power	DC: DC Power DD: DC+DC Power	AC, DC, AD	AC, DC, AD	DC12	DC12, AC, DC, AD, AA, DD	AC, DC, AD
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Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.