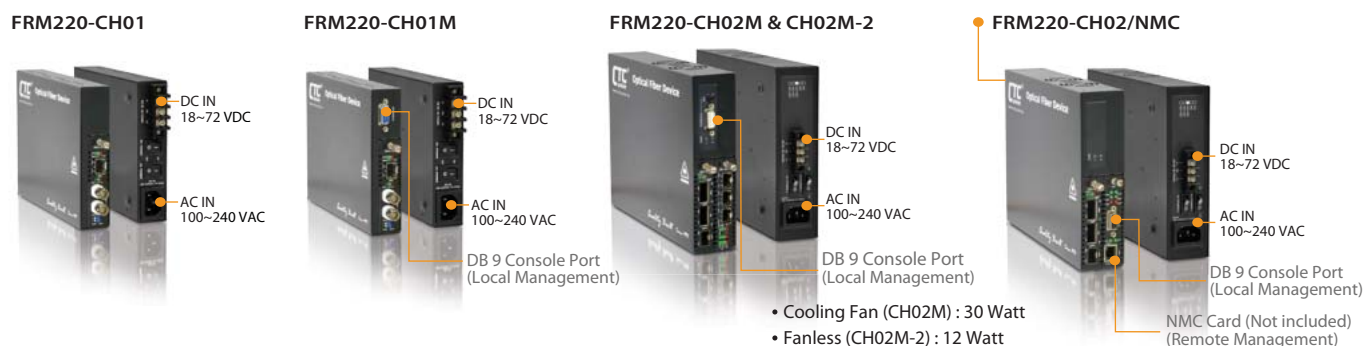# Standalone Chassis for FRM220 Series

The FRM220 product line includes various metal chassis sizes, which can hold from one to twenty FRM220 slide-in modules. The FRM220-CH01 is one slot chassis, which can be installed with one single width blade card for stand-alone applications. The available power options are external AC adapter, built-in AC, DC power or built-in AC+DC, AC+AC, DC+DC redundant power. The FRM220-CH01M is one slot chassis with DB9 console port for local management on supported cards, which can be installed with one single width blade card for stand-alone applications. The available power options are built-in AC, DC or built-in AC+DC redundant power. The FRM220-CH02 is a two slot chassis, which can be installed with one double width blade card for stand-alone applications. The only available power supply option is an external AC adapter. The FRM220-CH02M is a two slot chassis with DB9 console port for local management, which can be installed with either one or two single width blade cards or one double width blade card. The available power supplies are built-in AC, DC or AC+DC redundant power.
The FRM220-CH02/NMC is a two slot chassis, the chassis can be SNMP managed when installing one FRM220-NMC card for Web, Telnet, Console, SNMP management, and the available power options are built-in AC, DC or AC+DC redundant power. The FRM220-CH02/NMC should always be used with an NMC card for management and one single width blade card.

Power Build-in Type

FRM220-CH01

DC IN 18~72 VDC

AC IN 100~240 VAC

FRM220-CH01M

DC IN 18~72 VDC

AC IN 100~240 VAC

DB 9 Console Port (Local Management)

FRM220-CH02M & CH02M-2

DC IN 18~72 VDC

AC IN 100~240 VAC

DB 9 Console Port (Local Management)

• Cooling Fan (CH02M) : 30 Watt
• Fanless (CH02M-2) : 12 Watt

FRM220-CH02/NMC

DC IN 18~72 VDC

AC IN 100~240 VAC

DB 9 Console Port (Local Management)

NMC Card (Not included) (Remote Management)

AC Adapter Type

FRM220-CH01

Power Jack 12 VDC

FRM220-CH02

Power Jack 12 VDC

Features

- Fanless (CH01, CH01M, CH02, CH02M-2)
- Cooling Fan (CH02M, CH02/NMC)
- Supports DB9 console port for local management (CH01M, CH02M, CH02M-2)
- Telnet, Web, Console, SNMP management via NMC Card (not included)(CH02/NMC)

Power Type:
- External Power: DC12
- Internal Power: AC, DC, AD, AA or DD redundant power (option)

Specifications

Power Input (Option)	External Adapter	Input Voltage 100~240VAC 50/60Hz
		Output Voltage 120VDC 1A
	Internal Power	AC: 100~240VAC
		DC: 18~72VDC
Weight	0.5~0.8kg (CH01) , 0.9kg (CH01M)	
	0.8kg (CH02) , 1.3kg (CH02M) , 1.2kg (CH02M-2) , 1kg (CH02/NMC)	

Dimensions (D x W x H)	External Adapter	160x 88x 24mm (CH01)
		139x 88x 44mm (CH02)
	Internal Power	180x 135x 35mm (CH01)
		201x 135x 35mm (CH01M)
		220x 168x 45mm (CH02M, CH02M-2, CH02/NMC)

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

FRM220 Standalone Selection Table

Model Name	Slot	NMC Card Slot	Console Port	Adapter Type 100~240VAC to 12VDC	Power Built-In Type 100~240VAC	18~72VDC	Dual Power 100~240VAC & 18~72VDC	Cooling Fan	Fan-less	Power Module
CH01	1			✓					✓	12W
CH01-AC	1				✓				✓	12W
CH01-DC	1					✓			✓	12W
CH01-AD	1						✓		✓	12W/12W
CH01M-AC	1		✓		✓				✓	12W
CH01M-DC	1		✓			✓			✓	12W
CH01M-AD	1		✓				✓		✓	12W/12W
CH02	2			✓					✓	30W
CH02M-AC	2		✓		✓			✓		30W
CH02M-DC	2		✓			✓		✓		30W
CH02M-AD	2		✓				✓	✓		30W/30W
CH02M-2-AC	2		✓		✓				✓	12W
CH02M-2-DC	2		✓			✓			✓	12W
CH02M-2-AD	2		✓				✓		✓	12W/12W
CH02/NMC-AC	2	✓			✓			✓		30W
CH02/NMC-DC	2	✓				✓		✓		30W
CH02/NMC-AD	2	✓					✓	✓		30W/30W
CH04A-AC	4	✓			✓			✓		65W
CH04A-DC	4	✓				✓		✓		50W
CH04A-AD	4	✓					✓	✓		65W/50W

How to order

- DIP Switch Configuration Order:CH01 and CH02
- Local Console Management Order: CH01M, CH02M and CH02M-2. "M" means the chassis with Console Management.
- Remote Web / SNMP Management Order: CH02 / NMC, CH04A
- Power Type: AD = AC + DC Power

Note: NMC card not included in CH02/NMC & CH04A chassis, it must purchase separately

FRM220 – ☐☐☐☐ – ☐☐
Example: FRM220 – CH01–AD

Power Type
FRM220 – CH02/NMC – ☐☐
Example: FRM220 – CH02/NMC– AD

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Standalone Chassis

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Standalone Chassis

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