

## FRM220 Slide-in Card Chassis

The FRM220 Chassis 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, 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 and can be SNMP managed when installing one FRM220-NMC card for Web, Telnet, Console and SNMP management. The FRM220-CH02/NMC can be installed with either one or two single width blade cards or one double width blade card. The FRM220-CH02/NMC available power options are built-in AC, DC or AC+DC redundant power.

### FRM220 One Slot Chassis

#### FRM220-CH01



FRM220-CH01 (w/External adapter)



FRM220-CH01 (Power built-in)

##### Features :

- One slot chassis for FRM220 Single width blade line cards.
- Available in six types: external power adapter or power built-in AC, DC, AC+DC, AC+AC or DC+DC
- Fanless

##### Dimensions (D x W x H) :

External adapter : 160 x 88 x 24mm

Internal power : 180 x 135 x 35mm

##### Power Input :

- AC power 100 ~ 240VAC
- DC power 18 ~ 72VDC
- External Adapter  
Input voltage 100 ~ 240VAC 50/60Hz  
Output voltage 12VDC 1A

### FRM220 One Slot Chassis with Console Port

#### FRM220-CH01M

##### Features :

- One slot chassis for FRM220 Single width blade line cards.
- Supports DB9 console port for local management
- Available in three types: power built-in AC, DC, AC+DC
- Fanless

##### Dimensions (D x W x H) :

201 x 135 x 35mm

##### Power Input (option) :

- AC power 100 ~ 240VAC
- DC power 18 ~ 72VDC



### Comparison Table

| Chassis Type  | Slot | Power Type               | Console Port | Console Fan | NMC |
|---------------|------|--------------------------|--------------|-------------|-----|
| FRM220-CH01   | 1    | DC12, AC, DC, AD, AA, DD |              |             |     |
| FRM220A-CH01M | 1    | AC, DC, AD               | ✓            |             |     |
| FRM220-CH02   | 2    | DC12                     |              |             |     |
| FRM-CH02/NMC  | 2    | AC, DC, AD               |              | ✓           | ✓   |
| FRM220A-CH02M | 2    | AC, DC, AD               | ✓            | ✓           |     |

**Note:** DC12: AC Adapter AC:AC Power DC: DC Power AD: AC+DC Power AA: AC+AC Power DD: DC+DC Power

## FRM220 Two Slot Chassis

### FRM220-CH02

#### Features :

- Two slot chassis for FRM220 line cards.
- Supports either one or two single width blades or one double width blade.
- Power Type: external power adapter
- Fanless

**Dimensions (D x W x H) :** 139 x 88 x 44mm

**Power Input (option) :** External Adapter: Input voltage 100 ~ 240VAC 50/60Hz, Output voltage 12VDC 1A



## FRM220 Two Slot Chassis with Console port

### FRM220-CH02M

#### Features :

- Two slot chassis for FRM220 line cards.
- Supports backplane connection between two slots
- Supports DB9 console port for local management
- Support either one or two single width blades or one double width blade.
- Available in three types: power built-in AC, DC, AC+DC
- Cooling Fan

**Dimensions (D x W x H) :** 220 x 168 x 45mm

**Power Input (option) :** • AC power 100 ~ 240VAC • DC power 18 ~ 72VDC



## FRM220 SNMP manageable Two Slot Chassis

### FRM220-CH02/NMC

#### Features :

- Two slot chassis for FRM220 line cards.
- Supports backplane connection between two slots
- Telnet, Web, Console, SNMP manageable via NMC card (not included)
- Support either one or two single width blades or one double width blade.
- Available in three types: power built-in AC, DC, AC+DC
- Cooling Fan

**Dimensions (D x W x H) :** 220 x 168 x 45mm

**Power Input (option) :** • AC power 100 ~ 240VAC • DC power 18 ~ 72VDC



### Ordering Information

| Model Name         | Description                                                        |
|--------------------|--------------------------------------------------------------------|
| FRM220-CH01        | 1 Slot Chassis with 100 ~240VAC to 12VDC adapter                   |
| FRM220-CH01-AC     | 1 Slot Chassis with 100 ~240VAC                                    |
| FRM220-CH01-DC     | 1 Slot Chassis with 18 ~75VDC                                      |
| FRM220-CH01-AD     | 1 Slot Chassis with 100~240VAC + 18 ~75VDC                         |
| FRM220A-CH01M-AC   | 1 Slot Chassis with console port and 100 ~240VAC                   |
| FRM220A-CH01M-DC   | 1 Slot Chassis with console port and 18 ~75VDC                     |
| FRM220A-CH01M-AD   | 1 Slot Chassis with console port and AC 100~240V + DC 18 ~75V      |
| FRN220-CH02        | 2 slots Chassis with 100 ~240VAC to 12VDC adapter                  |
| FRM220-CH02M-AC    | 2 slots Chassis with console port and 30W 100 ~240VAC              |
| FRM220-CH02M-DC    | 2 slots Chassis with console port and 30W 18 ~75VDC                |
| FRM220-CH02M-AD    | 2 slots Chassis with console port and 30W AC 100~240V + DC 18 ~75V |
| FRM220-CH02M-2-AC  | 2 slots Chassis with console port and 12W 100 ~240VAC              |
| FRM220-CH02M-2-DC  | 2 slots Chassis with console port and 12W 18 ~75VDC                |
| FRM220-CH02M-2-AD  | 2 slots Chassis with console port and 12W AC 100~240V + DC 18 ~75V |
| FRM220-CH02/NMC-AC | 2 slots Chassis with 100 ~240VAC , optional NMC card               |
| FRM220-CH02/NMC-DC | 2 slots Chassis with 18 ~75VDC , optional NMC card                 |
| FRM220-CH02/NMC-AD | 2 slots Chassis with AC 100~240V + DC 18 ~75V , optional NMC card  |

FRM220 -

Example: FRM220 - CH01

FRM220A -     -

Example: FRM220A - CH01M - DC