

The FRM220 series chassis solution of CTC Union Technologies is a multi-service chassis platform, which provides an economic and reliable solution in high density media converter module installation for applications oriented market such as telecom operator, enterprise, long haul transmission and factory automation. All of critical components of FRM220 series chassis solution such as power module, fans, management module and interface cards are hot swappable, allowing online field replacement.

## In-Band Managed Multi-Service Platform



**FRM220-CH20**  
( 2U/19" rack mountable, 20 slots )

◀ FRM220-NMC



**FRM220-CH08**  
( 1U/19" rack mountable, 8 slots )

◀ FRM220-NMC

### Features & Benefits

#### In-band management

FRM220 chassis solution supports in-band management function to enable network administrator easily monitoring and configuring both local and remote Ethernet modules without truck roll to save the OPEX for operators.

#### All modules and interface cards are hot swappable

In case any component module or interface card is required to swap, the system can be performed in-service replacement without network connection interruption required.

#### Cascaded connection for single IP management

FRM220-CH20 supports cascaded connection up to 10 sets maximum for single IP managed purpose to enable centralized management capability as well as flexible scalability.

## Chassis Cascaded for Centralized Management

### FRM220-CH20



FRM220-NMC



Thermal Fan  
(Hot swappable)

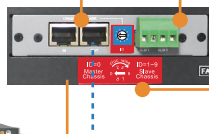


Single or optional  
redundant power supplies



Thermal Fan  
(Hot swappable)

Two Alarm Relays  
Chassis cascade up to  
10 with one IP management



FRM220-CH20 Chassis Cascade



Master

- Single IP managed chassis with 10 units cascaded max.
- Beneficial to centralizes management in one rack.
- Scalability as the demand grows.



Slave1

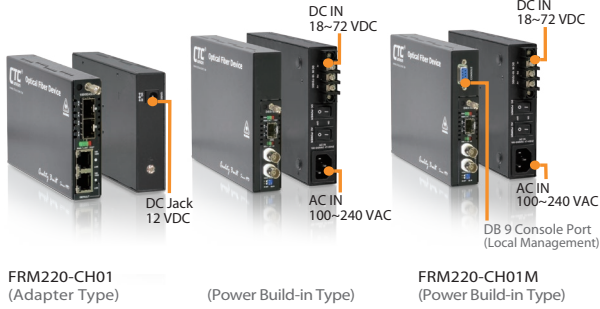


Slave9

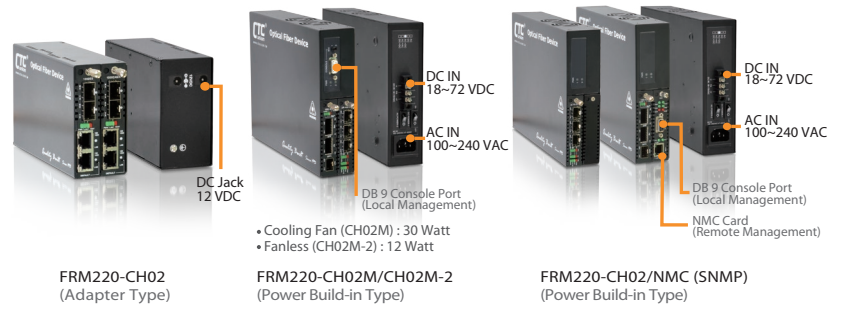
UTP cable

# Standalone Chassis Options as Remote CPE Solution

## 1 Slot Chassis



## 2 Slots Chassis



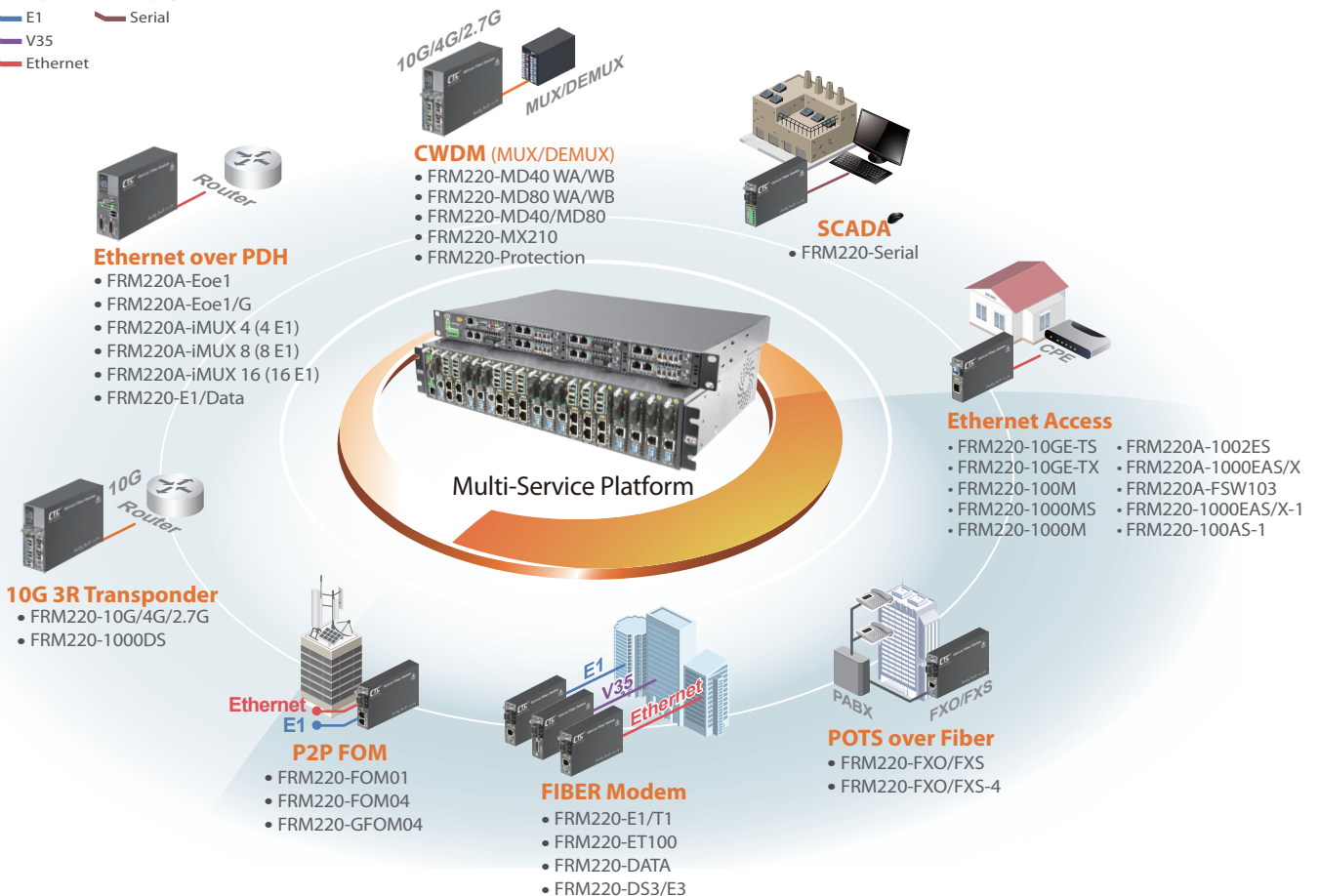
All of the above standalone chassis options are summarized in the table below along with the supported power supply type :

Chassis Type	Slot	Power Type	Console Port	NMC	Fanless
FRM220-CH01	1	DC12, AC, DC, AD			✓
FRM220-CH01M	1	AC, DC, AD	✓		✓
FRM220-CH02	2	DC12			✓
FRM220-CH02M	2	AC, DC, AD	✓		
FRM220-CH02M-2	2	AC, DC, AD	✓		✓
FRM220-CH02/NMC (SNMP)	2	AC, DC, AD		✓	

**Note :** DC12 : AC power adapter AC : AC power module built-in DC : DC power module built-in  
 AD : AC+DC power module built-in AA : AC+AC power module built-in DD : DC+DC power module built-in

## Module Cards for Deployment Scenarios

- FIBER
- E1
- V35
- Ethernet
- Phone
- Serial



The specification and pictures are subject to change without notice.



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