



MODEL7221

V.35 to E1(framed E1) Converter

Introduction:

MODEL7221 converter provides conversion between ITU-T G.703 standard E1 interface and standard V.35 interface, can convert E1 channel of SDH, PDH, and other Optical Transmission Equipment or microwave, satellite Equipment to V.35 channel, Extend V.35 channel of DDN. Used widely in data communication networks, Connecting with V.35 interface of Routers and Optical Transmission Equipments without G.703 interface, realize match between different network equipments, and transparent to upper protocol layer.

Packing List:

MODEL7221 is shipped with following items.

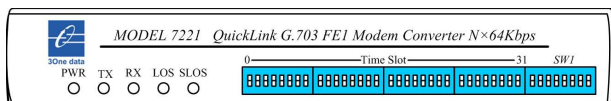
1. MODEL7221 V.35/E1 converter×1
2. 220V power line ×1
3. DB25M to M/34F cable ×1
4. User manual ×1

Features:

1. Convert V.35 interface to FE1(2M framed G.703) interface
2. Support $N \times 64\text{Kbps}$ ($N=1 \sim 32$) rate
3. Random distribute timepiece and bandwidth
4. Support line resume clock, local clock and equipment clock
5. E1 (G.703) interface support 120ohm (RJ-45) and 75ohm (BNC double coaxial)

Description on Installation and Panels:

1.The product front panel sketch map



indicator define:

PWR Power indicator. Brightness if electrify.

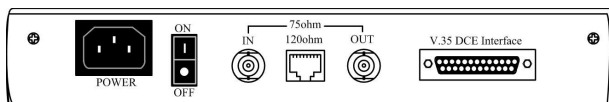
TX V.35 port send data indication

RX V.35 port receive data indication

LOS G.703 line cut alarm indication

SLOS E1line frame misstep alarm indication

2.The product back panel sketch map:



POWER -48VDC/220VAC input choice

ON/OFF power switch

Rx/75 ohm E1-75Ω input

Tx/75 ohm E1-75Ω output

V.35 DCE Interface V.35 interface(input/output)

Definition of E1 and V.35 interface:

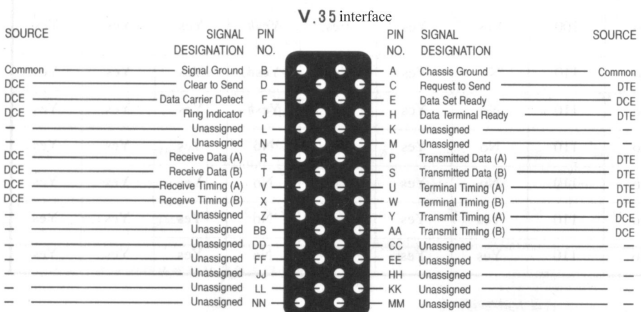
1. E1 interface 120 Ω /RJ-45 define

NO.	Function define	I/O
1	NC(null)	
2	RX+(receive data +)	input
3	RX-(receive data -)	input
4	GND(ground)	
5	GND(ground)	
6	TX+(send data +)	output
7	TX-(send data -)	output
8	NC(null)	

2. V.35 interface define(DB25 Female)

Grade NO.	Function descriptin	I/O
1	GND	
2	TDA	I
3	RDA	O

5	CTS	O
6	DSR	O
7	GND	
8	DCD	O
9	RCB	O
10	NC	
11	XTCB	I
12	TCB	O
14	TDB	I
15	TCA	O
16	RDB	O
17	RCA	O
18	NC	
19	NC	
20	NC	
21	NC	
22	NC	
23	NC	
24	XTCA	I
25	NC	

V.35:

DIP switch setup:

There have a range of DIP switch in the 7221 panel, Time Slot is used to choose E1 time slot, SW1 is used to function setup.

1. SW1 function

Clock setup

NO.1	NO.2	clock choice
OFF	ON	synchronization port outside clock
ON	OFF	main clock
ON	ON	line resume clock

Impedance setup

NO.4	NO.5	NO.8	impedance choice
ON	ON	ON	75 ohm
OFF	OFF	OFF	120 ohm

2. SW2 function

Time Slot has 32 switch from left to right, delegate 0-31 time slot.

1. If one switch is ON, it means choice this time slot
2. All 32 time slots are OFF, it means non-frame format

If the zero time slot is ON, adopt PCM30, OFF, adopt PCM31

Specifications:

E1 interface

Standard: Comply with ITU-T G.703

Output tingle displace: accord ITU-TG.735 advice

Input tingle limit: accord ITU-TG.823 advice

Output tingle: accord ITU-T G.823 advice

Frame format: framed

Interface rate: $N \times 64\text{Kbps}$ ($N=1 \sim 32$)

CRC checkout: no

Port coding: HDB3

Port transmission: 2KM

Port protection: 1500V electromagnetism isolate

Port connector: 120 Ohm(RJ-45) and 75 ohm(BNC double coaxial)

V.35 interface

Standard: Comply with V.35 (DTE)

Clock: Line clock, Local clock

Port connector: DB-25 female (DB25 to M/34 cable)

Line code: NRZ

Clock selection: Internal clock, V.35 line clock, E1 recovery

Clock

Test facility : Bite Local& remote loop test

Environment, Power and Dimension

Working temperature: -25 to 70°C

Storage temperature: -40 to 85°C

Humidity: Relative humidity 5% to 95%

Input power: 220VAC or -48VDC

Consumption: 2W

Power protection: From high voltage/short circuit

L×W×H: 227.4mm×146.3mm×42.7mm

Shell: Plastic

Weight: 260g

Warranty: 5 years

Certifications:



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