



# IT-7210-PC

## 10/100M Ethernet to 4×E1 Bridge

### Introduction:

The IT-7210-PC inverse multiplexers transmit up to 8 Mbps channel over multiple E1 links. They bridge the gap between E1 and E3, allowing bridges and routers to operate at their fastest rates. The IT-7210-PC has a built-in 10/100 Ethernet bridge with VLAN support for LAN-to-LAN applications over 4 E1 links. The IT-7210-PC fully meets all of the E1 specifications including G.703, G.704. The unit features diagnostic capabilities for performing remote loopback tests.

### Packing List:

IT-7210-PC is shipped with following items.

1. IT-7210-PC ×1
2. 220V power line ×1
3. User manual ×1

### Features:

1. Using 4 E1 line transparent transfer Ethernet data
2. Support pretend random coding loop test
3. E1 (G.703) interface support 120ohm (RJ-45) and 75ohm (BNC double coaxial)
4. Ethernet port support 10M/100M full-duplex/half-duplex
5. 1U, 19 inch RACK

### Description on Installation and Panels:

#### 1. Front panel sketch map:



#### LED Indicator define:

**PWR** Power indicator. Brightness if electrify.

**LINK** Ethernet connection constitute.

**DUP** Ethernet Full/half duplex indicator, bright as full duplex.

**100M/ACT** Ethernet port 100M indication.

**10M/ACT** Ethernet port 10M indication.

**WORK** E1 working indication

**LOS** E1 signal lose indication

**TEST7210** test state indication

**PTOK** Fake random test succeed indication.

#### 2. Back panel sketch map:



**POWER** -48VDC/220VAC input choice

**ON/OFF** power switch

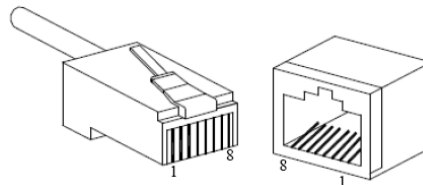
**Rx/75 ohm** E1-75Ω input

**Tx/75 ohm** E1-75Ω output

**Notice:** Rx/75 ohm BNC-1 and Tx/75 Ohm BNC-1 make-up of the 1 E1 input and output.

### Definition of balanced Twisted Pair (120 ohm) wire sequence for E1 and Ethernet interface:

#### 1. Ethernet RJ-45 interface define



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

Connect PC use cross-over cable

Connect HUB/SWITCH straight-through cable.

#### 2. 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)	

### DIP switch setup:

There have a range of DIPswitch in the 7210 panel, SW1 for function setup, SW2 for Ethernet mode setup.

#### 1. Function setup switch SW1

##### Ethernet mode choice

NO.1 NO.2 NO.3 Ethernet mode

OFF OFF OFF 10/100M, full/half duplex  
auto-negotiation

OFF ON OFF 10/100M auto-negotiation  
half duplex

OFF	OFF	ON	10M, full/half duplex auto-negotiation
OFF	ON	ON	10M, half duplex
ON	OFF	OFF	100M, full duplex
ON	ON	OFF	100M, half duplex
ON	OFF	ON	10M, full duplex
ON	ON	ON	10M, half duplex

**Timepiece choice (NO.4)**

ON	Local timepiece
OFF	Resume timepiece

**2. Function setup switch SW2**

**Loop for E1 port (NO.1)**

ON	Startup, loop test
OFF	Close loop test

**Loop for local or remote**

ON	E1 port supply loop to remote
OFF	E1 port supply loop to local

**Loop or test interface choice**

NO.3	NO.4	
ON	ON	choice NO.1 E1
OFF	ON	choice NO.2 E1
ON	OFF	choice NO.3 E1
OFF	OFF	choice NO.4E1

**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: unframed  
 Interface rate: 2.048Mbps × 4=8.192Mbps  
 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)

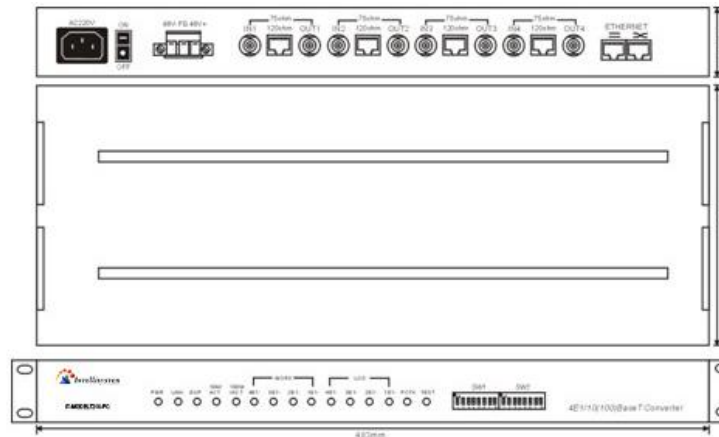
**Ethernet port**

Interface Types: 10/100BaseT, full/half duplex  
 Standards Compliance: IEEE 802.3(support VLAN)  
 Bit Rate: 10/100BaseT limited to Max 2.048 Mbps  
 Connectors: RJ45 (10/100 Base-T Electrical)  
 Line code: Manchester Encoding  
 Connect line: Connect PC with cross-over  
 Connect HUB/SWITCH with straight-through

**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  
 L×W×H: 483mm×160mm×44mm  
 Weight: 460g  
**Warranty: 3 years**

**Dimension:**



**Certifications:**



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