



## *X.25 Switches*

## **X.25 Switches**

Dynetcom's CPX10 and CPX20 CPX Packet Switches provide call routing from any trunk to any trunk. They are high-speed packet switches suitable for use in a public or private X25 network.

- ***Supports V.24, V.35, V.11, X.21, and RS449 Interfaces***

The CPX20 can support up to 20 trunks, and the CPX10 can support up to 10 trunks, each running at 64Kb/s with packet sizes up to 1024 Octets. They can handle up to 50 call setups per second, and up to 2048 simultaneous virtual circuits. The optional FAST-Module card increases line speed support to 2 Mbps and boosts performance to 3000 pps.

- ***Flexible routing with load sharing***

The CPX10/20 switches may be clocked externally or internally, removing the need for modem eliminators on local links. They can be configured for V24, V35, or V11(X21, RS449) interfaces on a trunk by trunk basis. Based on multiple microprocessors, and flow control techniques, the CPX10/20 switches ensure that data can be accepted on all trunks at maximum speed without loss.

- ***Supports data rates to 2.048 Mbps (T1/E1)***

### **Highlights**

- ***Protocols are selectable on a port by port basis***

- Throughput greater than 3000 packets/sec (128 bytes)
- Choice of interfaces V.24, V.35, V.11, X.21, or RS449 at speeds up to 2.048 Mb/s, internal or external clocking
- 50 call setups per second
- Packet size to 1024 Octets
- SVC and PVC, 2048 virtual circuits
- 4 to 20 high-speed X.25 or Frame Relay trunks
- Logical diagnostic port, locally and remotely accessible, command driven with help facility
- Flexible routing with load sharing
- Address validation address translation
- Integrated disk storage on CPX20

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# Product Features



### X.25 Packet Level

- **Services:** SVC or PVC, mixed per trunk
- **Numbering:** Modulo 8
- **Data Fields:** Octet Aligned
- **LGN, LCN:** User definable range 1-4095
- **Max VC's:** 2048 system wide (100 PVCs max)
- **Address Format:** X.121 (up to 15 digits)
- **Max Packet:** 1024 bytes
- **"T" Parameters:** All relevant DTE/DCE parameters are supported at value stated in 1984 CCITT

### X.25 Link Level

- **Framing:** HDLC
- **Addressing:** DTE or DCE
- **Procedure:** LAPB (CCITT X.25 1988)
- **Parameter:** K=1-7 default (modulo 8)  
K=1-127 default 32 (modulo 128)  
N1=8248 (1031 octets)  
N2=1-20, default 0  
T1=100msec to 30 sec by 100msec incr.  
T2=less than 50 msec
- **Numbering:** Modulo 8 or 128

### X.25 Physical Level

- **Interfaces:** V.24/V.35/V.11/X.21/RS449 Full Duplex, continuous carrier, DTE or DCE selectable
- **V.24/RS232:** Female 25 Pin D type socket 1200, 2400, 4800, 9600, 19200 b/s
- **V.35/V.11/X.21/RS449:** Female 25 pin D type socket 1200, 2400, 4800, 9600, 19200, 38400, 48000, 56000, 64000 b/s. T1 and E1 speeds up to 2.048 Mb/s

### Switches and Indicators

- **Switches:** Reset and Reboot
- **Trunk Ind.:** 4 state LED (Level 1 up/down, Level 2 up, Level 3 up) 2 state LED (Virtual circuits present/virtual not present)
- **Controller:** 5 tri-state LED's on master CPU, 1 on each line card (card absent, card error, card OK)
- **Test:** 3 LED on Master CPU plus those above used for self-test

### Control Port Interface

- **Interface:** V.24/RS232
- **Speed:** Auto detect to 110 to 19200 b/s
- **Format:** 7 data bit, 1 or 2 stop bits
- **Parity:** Auto detect, Odd, Even
- **Flow Control:** XON/XOFF

### Performance

- **Throughput:** >1000 pps with 128 byte packet size
- >3000 pps with Fast Card
- **Call Set-up:** 50 call setups per

### Physical

- **Width:** 19" (47.26cm)
- **Height:**
  - CPX 10: 5.25"
  - CPX 20: 12.25"
- **Depth:** 10.7" (27 cm)
- **PSU:** 90-265 volts wide range
- **Consumption:** 1 amp
- **Operating temp:** 5 to 45 degrees C
- **Storage temp:** 0 to 60 degrees C
- **Heat o/p max:** 410 TU/Hour

# NSGDatacom

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