

# UPNOD TCS 2000 – Terminal Control System

## INTRODUCTION

**UPNOD TCS 2000 is a flexible family of units for terminal handling.**

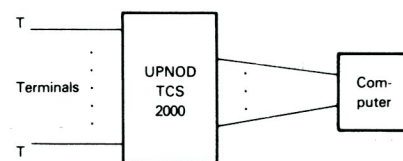
The UPNOD TCS units have a number of basic functions that enable the use of a unit as a stand alone system as well as a node in a terminal network. A TCS can always be incrementally upgraded to incorporate more of the possible functions.

## SUMMARY OF CAPABILITIES

### ● Port Contention Unit

The TCS enables the connection of more terminals than the number of available computer ports. Terminals are dynamically connected to computer ports. The port is declared to be free when the session is terminated.

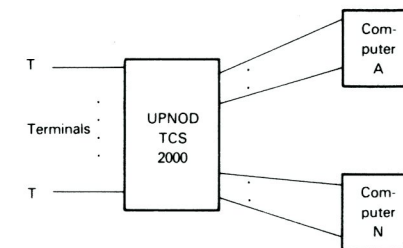
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### ● Terminal Switch

The TCS enables a terminal to connect to any of several computers connected to a node.

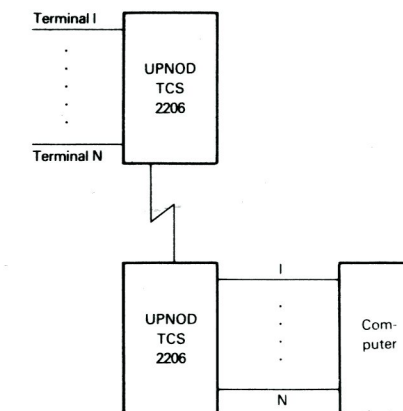
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### ● Multiplexer/Concentrator

The TCS enables several terminals/ports to share a single high speed link by concentrating several low/medium speed connections.

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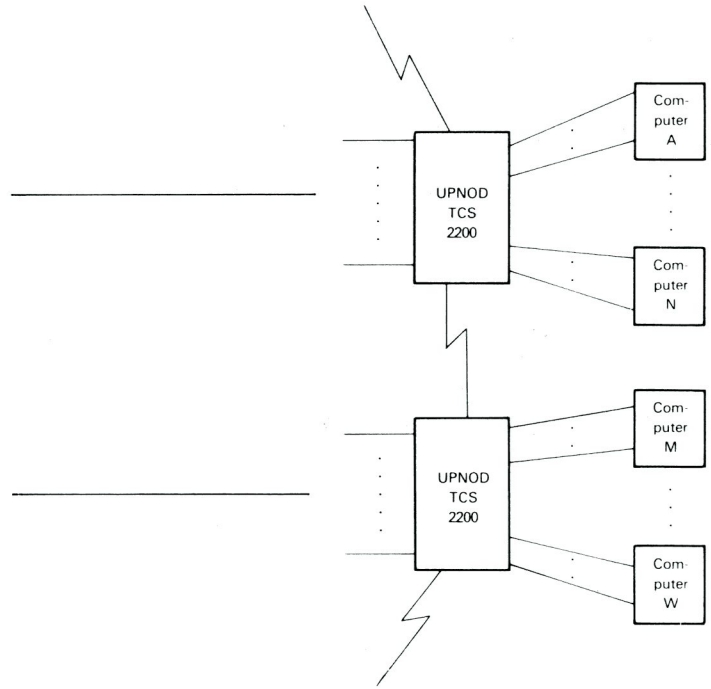


● **Local Area Networks**

Interconnecting several TCS units located in the same or nearby buildings gives a local area network which allows all computing resources to be accessible from anywhere in the local area. Several nodes connected via multiplexed lines behave as one switching system.

● **Regional Networks**

By connecting single TCS units or units that are members of a local area network with each other, using leased lines from the public carrier network, computing resources from an entire region may be efficiently shared by all terminals connected to nodes in the region.



**PHYSICAL DATA**

The TCS 2000 is available in 4 standard sizes.

	TCS 2000 Basic Sizes			
	24	56	112	224
Maximum number of 8 channel I/O cards	3	7	14	28
CPU-2000 cards	3	7	14	18
Floppy-disk	option	option	option	option
Dimensions (mm)				
Height	266	1060	1327	1861
Width	450	557	557	557
Depth	365	849	849	849
Power consumption (W)	250	300	400	800
Temperature	10 – 35°C			
Relative humidity	30 – 90% non condensing			
Power	220 V AC ± 10% 47 – 63 Hz			
Sound level	< 30 dB			

## TECHNICAL DATA

### Local ports/lines

Number of ports	8-224
Number of ports/card	8
Asynchronous comm.	x
Interface	
v. 24/v. 28	x
Current-loop 20 mA	x
RS-422	option
Optoisolation	x
Contacts	
DSUB	x
DIN	option
Customer-spec.	option
Transmission-speeds	8 selectable speeds 50-19.200 Baud
Autobaud	x
Number of data-bits	5-8
Number of stop-bits	1, 1.5, 2
Number of status signals transferred in each direction	2
Parity	none/even/odd

### Trunks

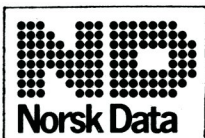
Interface	
RS-422	option
RS-232-C	x
Optolink	option
Number of trunks	< = 10
Trunk-protocol	TDM and SMX
Error-control/correction	x
Speeds	
2400-9600	x
9600-100 k	x

### Auxiliary

Floppy-disk	option
Battery-back-up	option

## VENDOR

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NOTE: NORSK DATA reserves the right to change specifications without notice