

hardware catalog



36000

USERS OF DATA PROCESSING EQUIPMENT are much better informed these days. Most have heard about new developments in peripherals, and about electronics rapidly disappearing onto a microscopic chip. Many are looking around at the familiar shapes, sizes, and prices of mainframe suppliers' hardware and beginning to ask: "How, precisely, do I benefit from all these advances in data processing hardware technology?"

LET'S TAKE PERIPHERALS FIRST. The RC 3600 exists to give you access to a range of advanced, independently produced devices, carefully selected for their excellence in quality, performance, and economy.

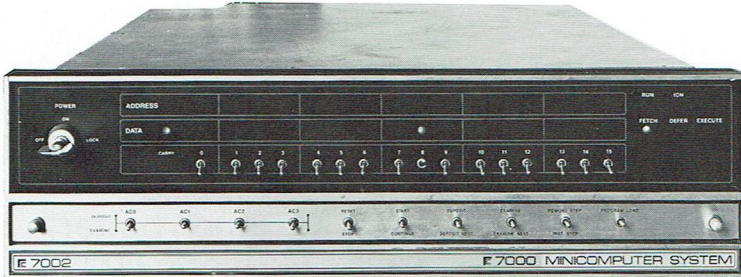
THE MAIN PURPOSE OF THIS HARDWARE CATALOG is, therefore, to present these peripherals to you. The pictures show you what they look like, and tables of facts and figures give you all their vital statistics.

NOW FOR THE ELECTRONICS. This catalog also shows how we have used modern, compact technology to integrate the peripherals of your choice into a system that can use your data formats. Accompanying each peripheral unit in the catalog you will see further pictures and diagrams showing you precisely which hardware elements are required for this purpose.

WE HAVE TRIED TO KEEP THIS CATALOG CONCISE and easy for busy data processing people to read. The busier you are, the more important it could be for you to realize how the RC 3600 can give you immediate access to the benefits of the state of the art in data processing hardware technology.

CENTRAL AND MEMORY UNITS

RC 3601 C CENTRAL UNIT



Processing Unit



Controller Chassis

The RC 3601C Central Unit consists of the processing unit, including chassis, standard I/O interface board, power supply, and space for memory expansion up to 32K bytes. It also includes the controller chassis, with its separate power supply and five slots for controller boards, and an I/O bus cable connecting it to the processing unit.

SPECIFICATIONS

Memory Cycle Time

1.2 microseconds per 16 bit word

Memory Capacity

8K bytes (1 × RC 3608)
16K bytes (1 × RC 3607 or 2 × RC 3608)
24K bytes (1 × RC 3608 and 1 × RC 3607)
32K bytes (2 × RC 3607)

Max. DMA Transfer Rate

1.1 million bytes per second

Standard Features

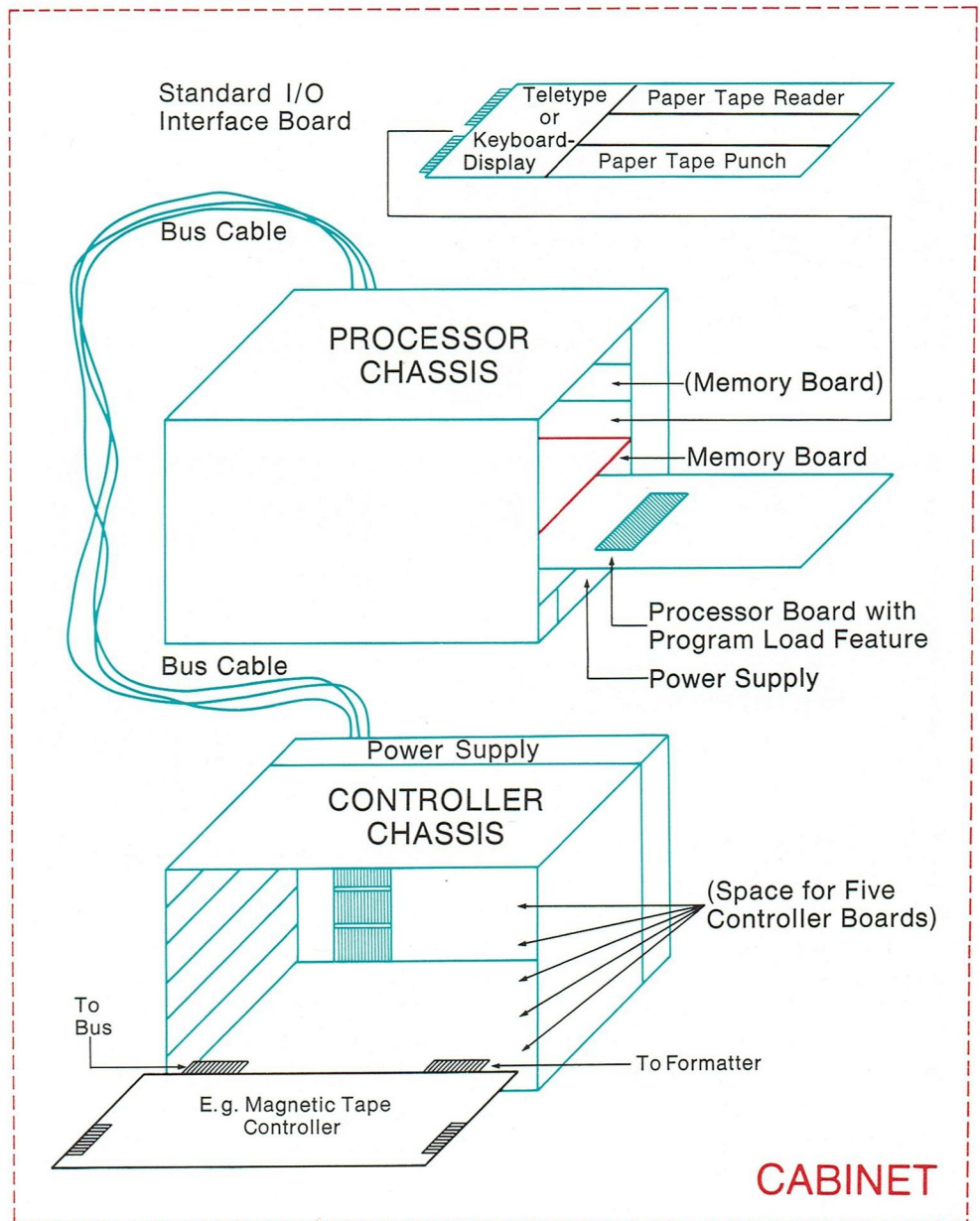
Real-time clock
Power monitor
Auto restart

Program Load Features

Automatic program load
F 01 9-track magnetic tape
F 02 8-channel paper tape
F 03 80-column punched cards
Note that one and only one of these features must be specified with any system, which must also include an appropriate device for this purpose.

CENTRAL AND MEMORY UNITS

- The unit comprises these elements: processing unit, controller chassis, and I/O bus cable.
- The unit presupposes these elements: at least one memory board (RC 3607 or RC 3608) and a cabinet (any magnetic tape unit, F 91 Desk Top Cabinet, or F 92 Midi Cabinet).



SPECIFICATIONS

Ambient Temperature

10–40°C (50–104°F)

Relative Humidity

20–80%

Heat Dissipation

750 W maximum, 645 KCAL/h, 2560 BTU/h

Dimensions

Height

31.1 cm (12¹/₄ inches)

Width

For cabinet mounting

Depth

For cabinet mounting

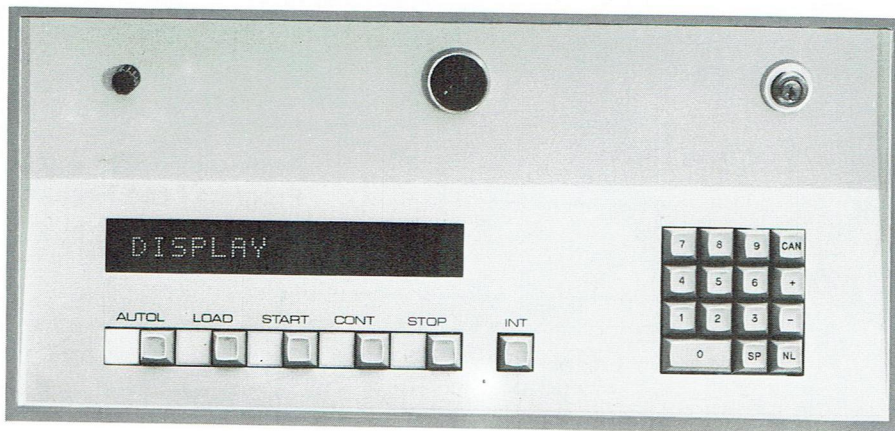
Weight

40 kg (88 lbs)

Mounting

Any magnetic tape unit
Desk Top Cabinet (F 91)
Midi Cabinet (F 92)

F 11 OPERATOR CONTROL PANEL



The F 11 Operator Control Panel provides all necessary facilities for operation of the system, including communication between the operator, the standard software, and the user program under execution. These facilities are provided by means of a display, function buttons and indicators, a numeric keyboard, an audio alarm, and a power key.

SPECIFICATIONS

Line Display

Display Type	Gas discharge dot matrix (7×111)
Character Repertoire	64 character ANSI
Display Length	16 characters, 18 cm (7 inches)
Character Height	1 cm (3/8 inch)

Keyboard

No. of Keys	15
Repertoire	0 to 9, +, -, CAN, NL, SP

Function Buttons

AUTOLOAD, LOAD, START, CONT, STOP, INT

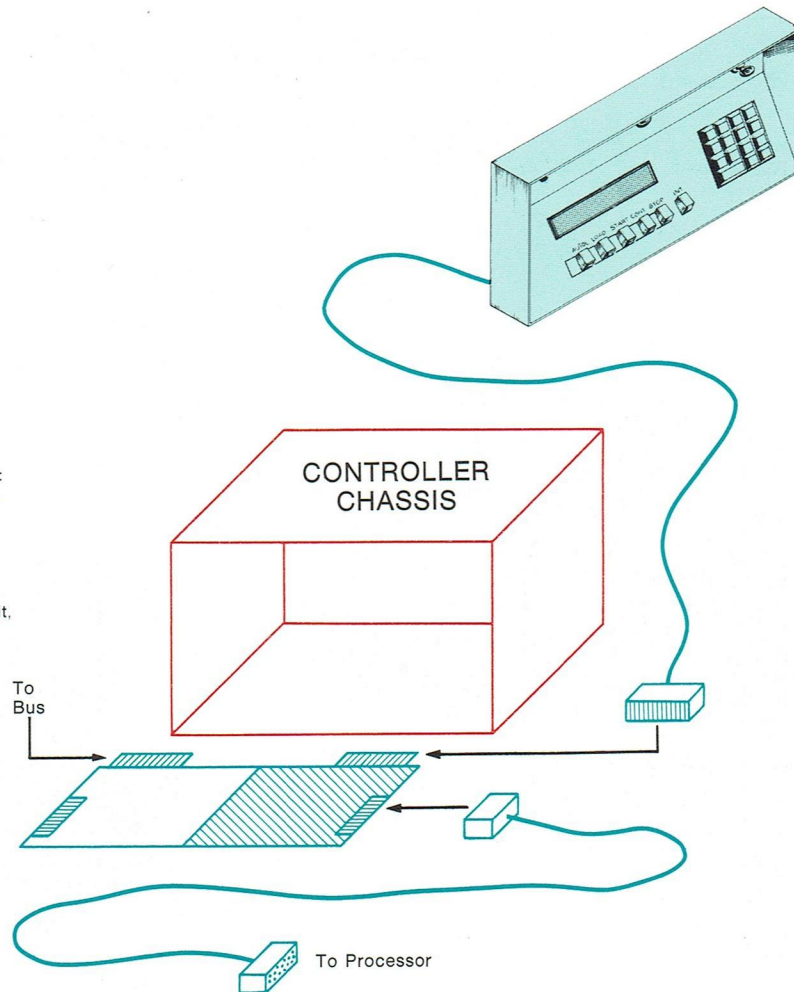
Indicators

AUTOLOAD, LOAD, START, CONT, STOP

Other Features

POWER KEY, AUDIO ALARM

- The feature comprises these elements: operator control panel, controller, and connecting cables.
- The feature presupposes these elements: RC 3601C Central Unit and a cabinet (normally that housing the Central Unit, i.e. any magnetic tape unit, F 91 Desk Top Cabinet, or F 92 Midi Cabinet).



SPECIFICATIONS

Ambient Temperature

10–40°C (50–104°F)

Relative Humidity

20–80%

Heat Dissipation

Included in Central Unit figures

Dimensions

Height

21.7 cm (8½ inches)

Width

For cabinet mounting

Depth

For cabinet mounting

Weight

4 kg (9 lbs)

Mounting

Device

Any magnetic tape unit
Desk Top Cabinet (F 91)
Midi Cabinet (F 92)

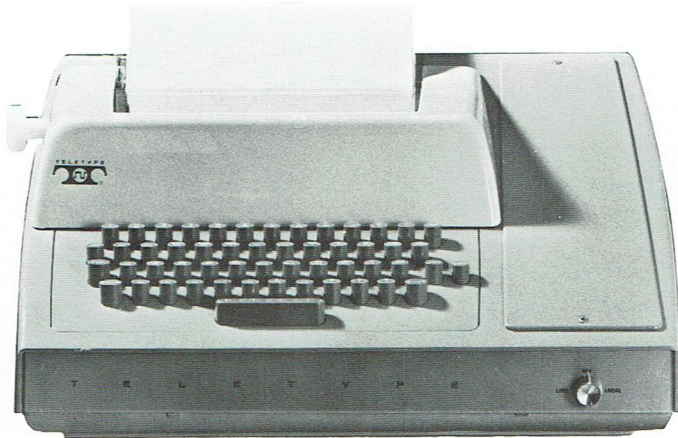
Controller Board

Any slot in Controller Chassis
Board shared with line printer controller

Special Remarks

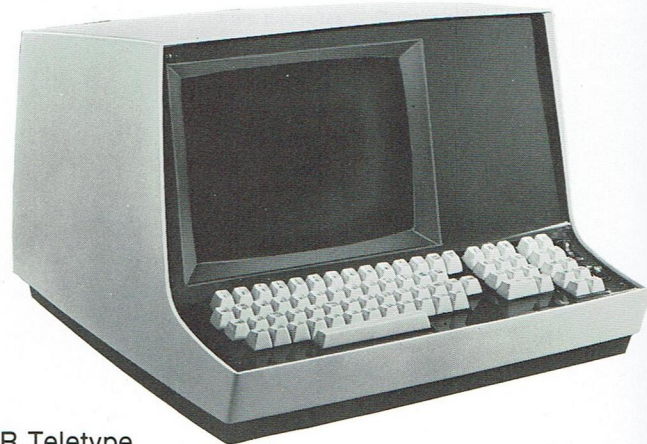
For mechanical reasons an additional 4.5 cm (1¾ inches) of rack space must be free immediately below the Operator Control Panel. Note also that for reasons of operating convenience the Operator Control Panel should be centered at a height of approximately 100 cm (40 inches) from the floor.

F 12 KSR TELETYPE AND F 13 ALPHANUMERIC KEYBOARD- DISPLAY



KSR Teletype

Alphanumeric
Keyboard-Display



These two mutually exclusive console devices – the F 12 KSR Teletype and F 13 Alphanumeric Keyboard-Display – provide logically identical facilities for the operation of the system by means of a standard 54 key, 4 row typewriter keyboard and a 72 character line output to, respectively, a serial 10 character per second printer and a 120 character per second 1800 character display.

SPECIFICATIONS

Typewriter Keyboard

No. of Keys
Graphic Repertoire
Supplementary Keys

F 12

53 (no BACK SPACE)
64 character ASCII
None

F 13

54
64 character ASCII
Numeric "calculator"
keyboard
Cursor control keys

Output

Line Length
No. of Lines Displayable
Paper Feed

72 characters
—
Friction drum for 8½ inch single
or multi ply paper

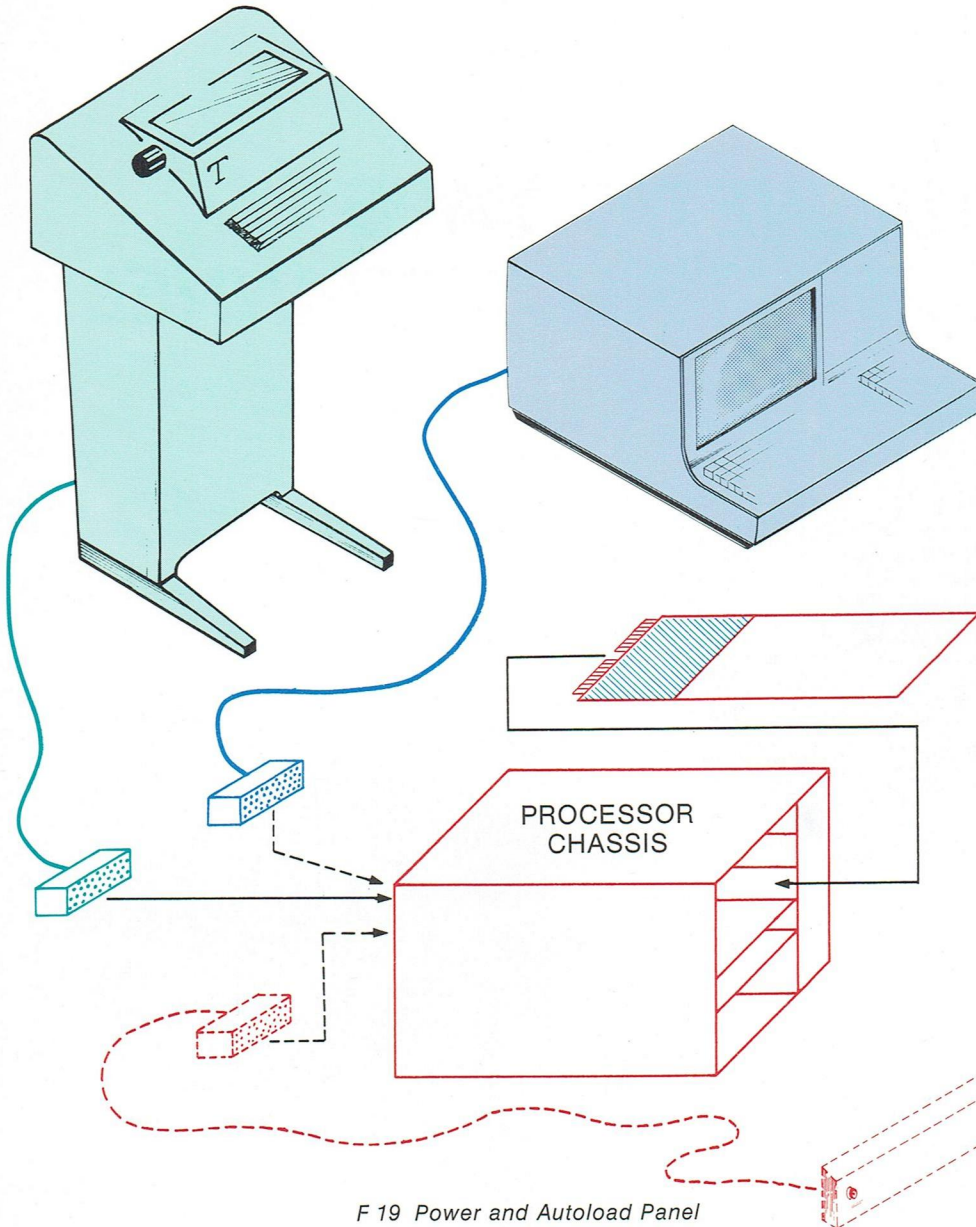
72 characters
25 lines
—

Character Spacing
Line Spacing
Speed

10 char. per inch
6 lines per inch
10 char. per second

11 char. per inch
5 lines per inch
120 char. per second

CONSOLE DEVICES



F 19 Power and Autoload Panel

F 19 POWER AND AUTOLOAD PANEL

For systems not including the F 11 Operator Control Panel, which must therefore be operated by means of the F 12 Teletype or F 13 Keyboard-Display, this device provides a means of switching mains power to the system and executing the autoload function.

SPECIFICATIONS

Operating Features

POWER KEY

AUTOLOAD button with ring guard

Indicators

POWER OK, RUN, AUTOLOAD

Ambient Temperature

10–40°C (50–104°F)

Relative Humidity

20–80%

Heat Dissipation

Included in Central Unit figures

Dimensions

Height
8.9 cm (3¹/₂ inches)

Width

For cabinet mounting

Depth

For cabinet mounting

Weight

1 kg (2¹/₄ lbs)

Mounting

Any magnetic tape unit

Desk Top Cabinet (F 91)

Midi Cabinet (F 92)

- The F 12 feature comprises these elements: KSR Teletype, controller, and connecting cable.
- The alternative F 13 feature comprises these elements: alphanumeric keyboard-display, controller, and connecting cable.
- Both features presuppose these elements: RC 3601C Central Unit and – if the system does not include the F 11 Operator Control Panel – the F 19 Power and Autoload Panel.

SPECIFICATIONS

Ambient Temperature

Relative Humidity

Heat Dissipation

Dimensions

Height

Width

Depth

Weight

Mounting

Device

Controller

F 12

10–40°C (50–104°F)

20–80%

110 W, 95 KCAL/h, 375 BTU/h

83 cm (32³/₈ inches)

47 cm (18³/₈ inches)

47 cm (18³/₈ inches)

26 kg (57¹/₄ lbs)

Free standing

Standard I/O

interface board in

Processing Unit

F 13

10–40°C (50–104°F)

20–80%

130 W, 112 KCAL/h, 444 BTU/h

36 cm (14¹/₁₆ inches)

46 cm (18 inches)

46 cm (18 inches)

22 kg (48¹/₂ lbs)

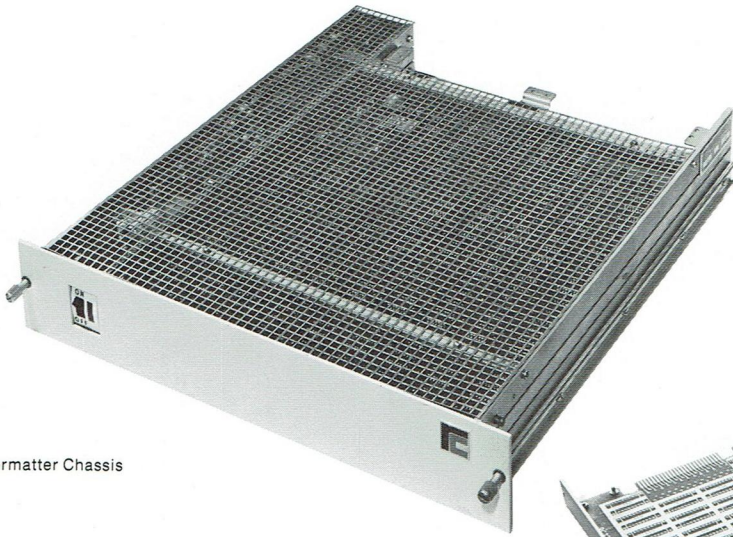
Desk top

Standard I/O

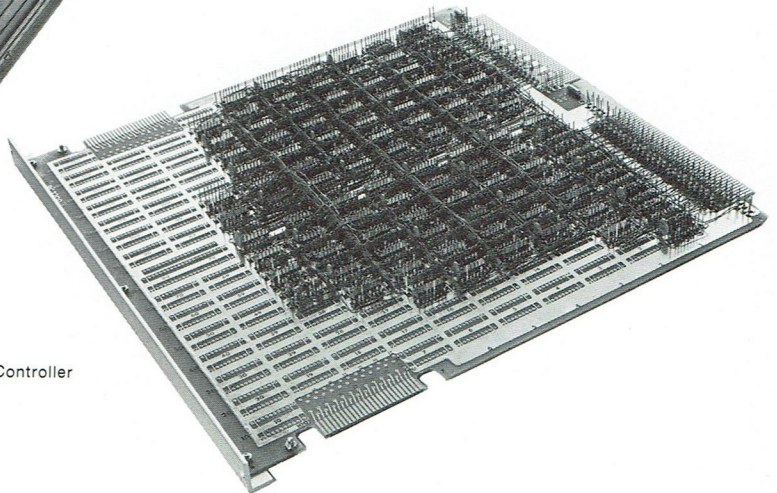
interface board in

Processing Unit

RC 3685 MAGNETIC TAPE CHANNEL



Formatter Chassis



Magnetic Tape Controller

Up to four magnetic tape units, in any combination of the available "S" Series types, may be linked to the system via an RC 3685 Magnetic Tape Channel. Optional formatter and density selection features may be specified as necessary.

SPECIFICATIONS

Data Transfer

Byte or character serial, using direct memory access

Formatter Features

Phase Encoding (F 21)

NRZI (F 22)

Either or both may be specified as required.

7 Track Density Selection

200/800 bpi (F 24)

556/800 bpi (F 25)

200/556 bpi (F 26)

Special Note

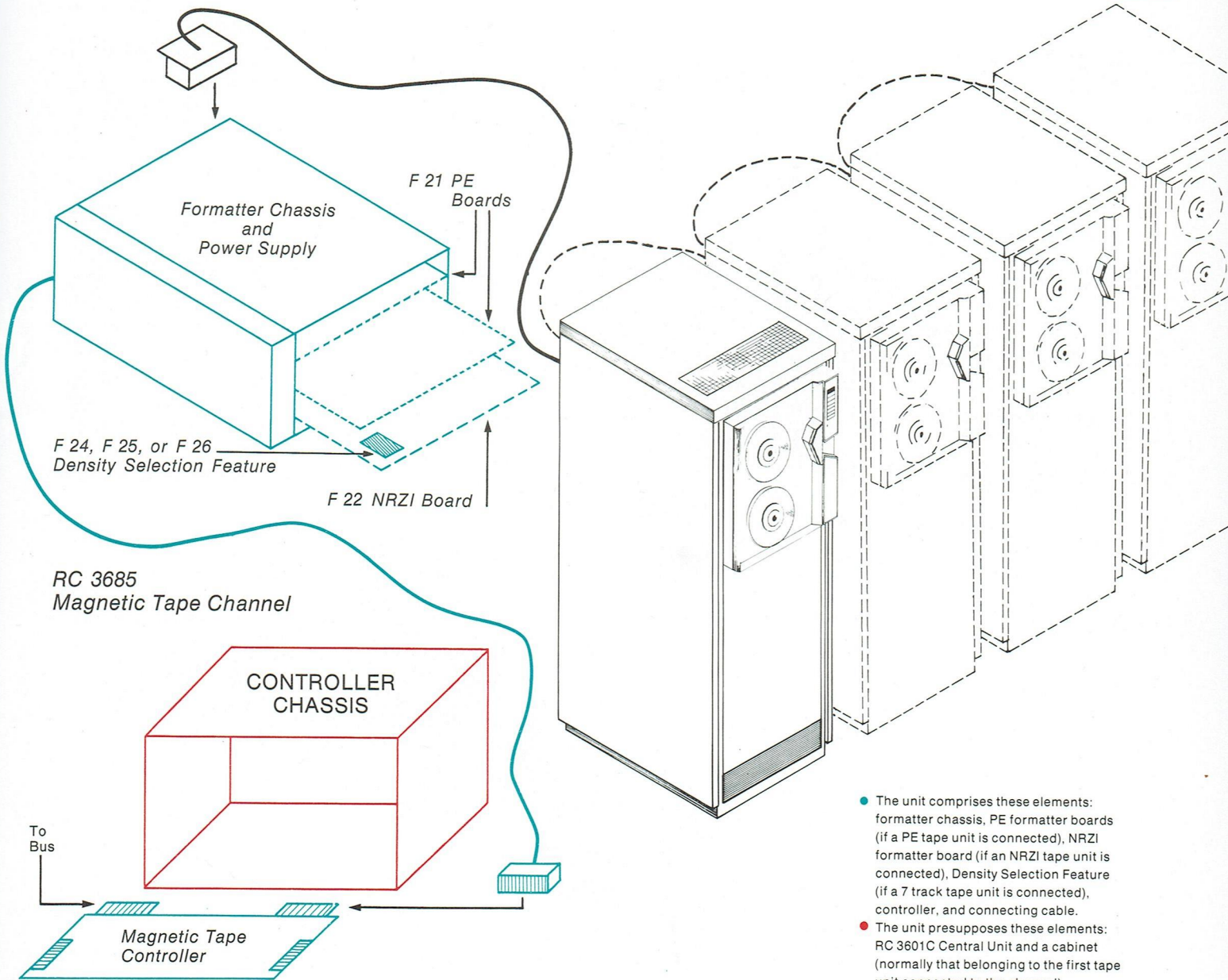
Only one of these features may be specified.

F 26 cannot be specified if any 9 track NRZI

(RC 3620S) or dual-density (RC 3615S)

tape unit is connected to the system.

MAGNETIC TAPE



- The unit comprises these elements: formatter chassis, PE formatter boards (if a PE tape unit is connected), NRZI formatter board (if an NRZI tape unit is connected), Density Selection Feature (if a 7 track tape unit is connected), controller, and connecting cable.
- The unit presupposes these elements: RC 3601C Central Unit and a cabinet (normally that belonging to the first tape unit connected to the channel).
- An "S" Series magnetic tape unit comprises these elements: tape transport, cabinet, and connecting cable to neighboring tape unit or formatter chassis.

SPECIFICATIONS

Ambient Temperature	16–32°C (60–90°F)
Relative Humidity	20–80%
Heat Dissipation, Formatter	
With PE Feature	85 W, 73 KCAL/h, 290 BTU/h
With NRZI Feature	70 W, 60 KCAL/h, 239 BTU/h
With Both Features	100 W, 86 KCAL/h, 341 BTU/h
Dimensions, Formatter Chassis	
Height	8.9 cm (3½ inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight, Formatter Chassis	12 kg (26½ lbs)
Mounting	
Formatter Chassis	Normally in cabinet of first magnetic tape unit specified
Controller Board	Any slot in Controller Chassis

The "S" Series Magnetic Tape Units are described on the next page. ▶

MAGNETIC TAPE

"S" SERIES MAGNETIC TAPE UNITS

Available units in this series are as follows:

- RC 3610 S 9 Track 1600 bpi**
- RC 3615 S 9 Track Dual-Density**
- RC 3620 S 9 Track 800 bpi**
- RC 3690 S 7 Track Dual-Density**



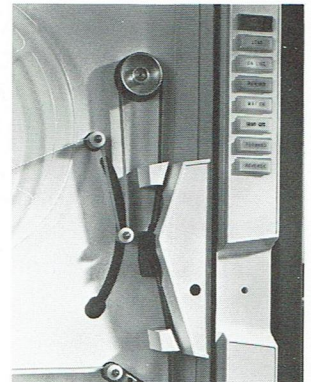
"S" Series Magnetic Tape Unit
(Shown with Operator Control Panel)

SPECIFICATIONS

	RC 3610S	RC 3615S	RC 3620S	RC 3690S
Read/Write Head	9 track 1600 bpi, read after write	9 track 1600 bpi, read after write	9 track 800 bpi, read after write	7 track 800 bpi, read after write
Read/Write Electronics	Phase encoding, IBM and ANSI compatible	Phase encoding, IBM and ANSI compatible NRZI, IBM compatible	NRZI, IBM compatible	NRZI, IBM compatible
Tape Velocity	25 inches per second			
Start/Stop Time	14.4 milliseconds			
Data Transfer Rate	40,000 bytes per second	40,000/20,000 bytes per second	20,000 bytes per second	20,000, 13,900, or 5,000 char. per second
Rewind Speed	150 inches per second			
Tape Specification	1/2 inch, 1.5 mil computer grade			
Max. Reel Diameter	10 1/2 inches			

SPECIFICATIONS (ALL "S" SERIES UNITS)

- Ambient Temperature** 16–32°C (60–90°F)
- Relative Humidity** 20–80%
- Heat Dissipation** 400 W, 344 KCAL/h, 1365 BTU/h
- Dimensions**
 - Height** 178.0 cm (69 7/16 inches)
 - Width** 57.5 cm (22 7/16 inches)
 - Depth** 73.5 cm (28 11/16 inches)
- Weight** 138.6 kg (305 lbs)
- Mounting** Free standing
- Special Remark** The RC 3610S, RC 3615S, RC 3620S, or RC 3690S may also be connected to an existing RC 3601A Central Unit via, respectively, an existing RC 3610, RC 3615, RC 3620, or RC 3690 Magnetic Tape Unit.



RC 3600 SERIES LINE PRINTERS

The five models comprising the RC 3600 Series of line printers are as follows:

- RC 3632 1800 lpm 64 ch Line Printer**
- RC 3633 1200 lpm 96 ch Line Printer**
- RC 3634 900 lpm 64 ch Line Printer**
- RC 3635 600 lpm 96 ch Line Printer**
- RC 3636 250 lpm 64 ch Line Printer**

The RC 3632 is a single-zone 64 character line printer capable of printing at its nominal speed of 1800 lines per minute when using single line spacing and any contiguous subset of 35 characters on the print drum. When using the full repertoire of 64 characters, it can print at 1250 lines per minute.



The RC 3633 is a single-zone 96 character line printer capable of printing at its nominal speed of 1200 lines per minute when using single line spacing and any contiguous subset of 67 characters on the print drum, or at 925 lines per minute when using the full character repertoire. When using a 2×48 character drum, the RC 3633 can print at 1500 lines per minute with the full repertoire.

The RC 3635 is a two-zone 96 character line printer capable of printing at its nominal speed of 600 lines per minute when using single line spacing and any contiguous subset of 67 characters on the print drum, or at 500 lines per minute when using the full character repertoire. When using a 2×48 character drum, the RC 3635 can print at 875 lines per minute with the full repertoire. If printing is confined to the first 72 positions, its performance is identical to that of the RC 3633.

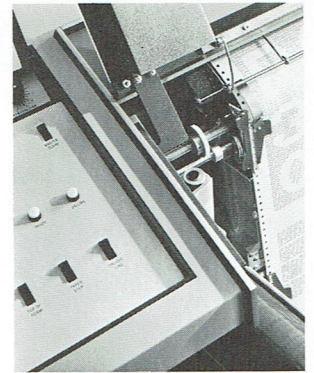
The RC 3634 is a two-zone 64 character line printer capable of printing at its nominal speed of 900 lines per minute when using single line spacing and any contiguous subset of 35 characters on the print drum, or at 700 lines per minute when using the full 64 character repertoire. If printing is confined to the first 72 print positions, its performance is identical to that of the RC 3632.

The RC 3636 is a six-zone 64 character line printer capable of printing at its nominal speed of 250 lines per minute when using single line spacing and the full 64 character repertoire. Restriction of the number of print positions used increases the print speed in five steps up to a maximum of 1100 lines per minute when printing is confined to the first 24 positions.

- All models use an operator-changeable print drum.
- All print drums are interchangeable between models using the same size of drum.
- Nominally slower models can print faster when a restricted number of print positions is used.
- Faster models can print in synchronism with the drum cycle when using single line spacing with a subset of the character repertoire.
- All models may be switched to a lower drum speed for extra high quality OCR or correspondence printing.
- 96 character models can print at up to twice their nominal speed when using a 2×48 character print drum.

For line printer specifications, please turn the page ►

LINE PRINTERS



SPECIFICATIONS

	RC 3632	RC 3633	RC 3634	RC 3635	RC 3636
Drum Speed (Revolutions per Minute)					
Normal	1800	1200	1800	1200	1800
Reduced	1200	800	1200	800	1200
Character Repertoire, Standard or User Specified	64	96 or 2×48	64	96 or 2×48	64
No. of Print Positions	132 at 10 per inch				
Vertical Spacing	6 or 8 lines per inch				
Paper Width	4 inches to 19 ⁷ / ₈ inches				
Paper Type	Single copy, 15 lb bond minimum Multi copy up to 6 parts, 12 lb bond with one-time carbon				
Time for 1st Line Space	14 milliseconds				20 milliseconds
Time for Subsequent Line Space	5 milliseconds per line				8.3 milliseconds per line
Performance	SEE TABLE BELOW				
Standard Features	12 channel VFU Phasing and penetration control Static eliminator Paper Low detector Drum speed selector switch Quick-change drum				12 channel VFU Drum speed selector switch Quick-change drum
Optional Features	136 print positions (F31) Castors (F 32)				

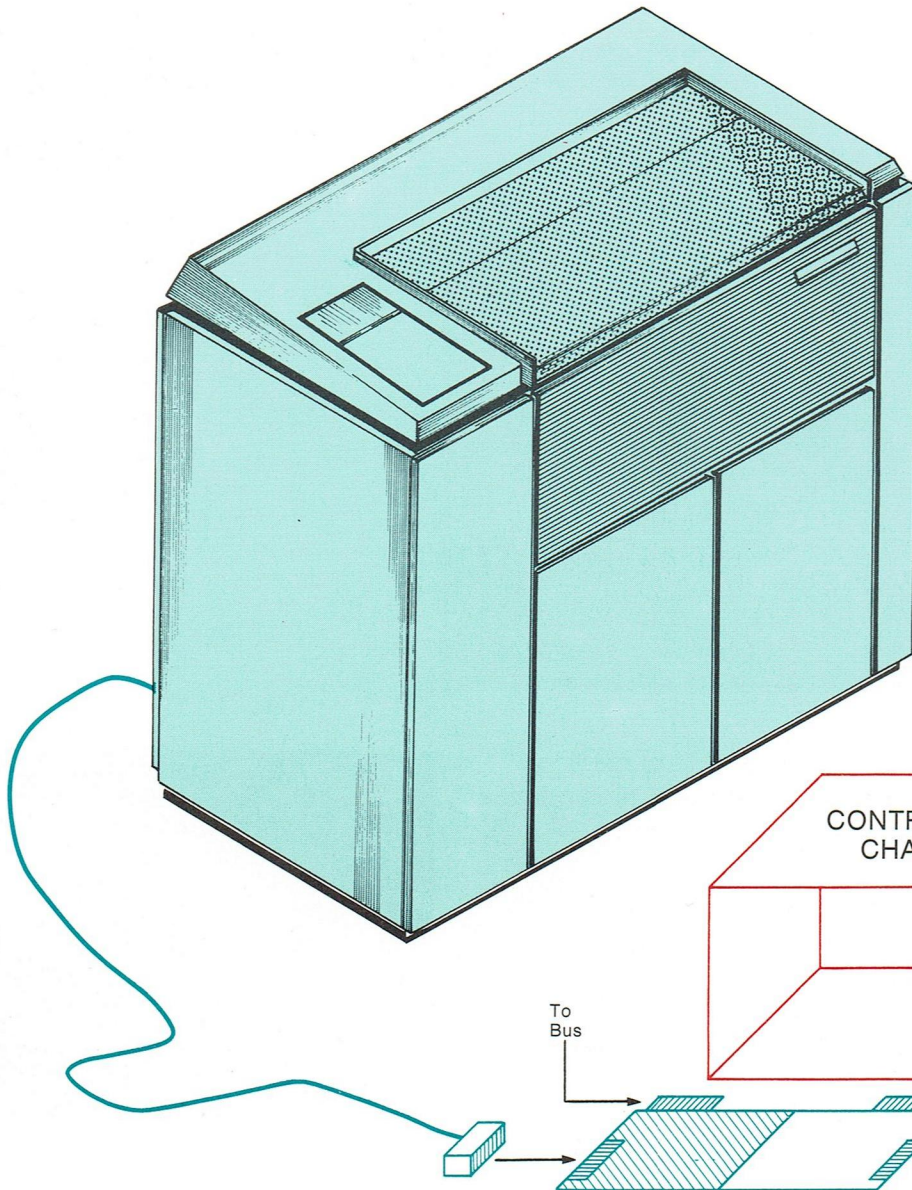
LINE PRINTER PERFORMANCES (LINES PER MINUTE WITH SINGLE LINE SPACING*)

64 CHARACTER PRINTERS										
	Char. Set	RC 3632	RC 3634		RC 3636					
Positions		1-132	1-72	1-132	1-24	1-48	1-72	1-96	1-120	1-132
Normal Drum Speed	1-35	1800	1800	900	-	-	-	-	-	-
	36-64	1250	1250	700	1100	650	470	360	290	250
Reduced Drum Speed	1-44	1200	1200	600	-	-	-	-	-	-
	45-64	925	925	500	850	480	330	260	210	175

96 CHARACTER PRINTERS					2×48 CHARACTER PRINTERS				
	Char. Set	RC 3633	RC 3635			Char. Set	RC 3633	RC 3635	
Positions		1-132	1-72	1-132	Positions		1-132	1-72	1-132
Normal Drum Speed	1-67	1200	1200	600	Normal	1-19	2400	2400	1200
	68-96	925	925	500	Drum Speed	20-48	1500	1500	875
Reduced Drum Speed	1-76	800	800	400	Reduced	1-28	1600	1600	800
	77-96	675	675	350	Drum Speed	29-48	1150	1150	625

*) Accuracy: ± 4%

LINE PRINTERS

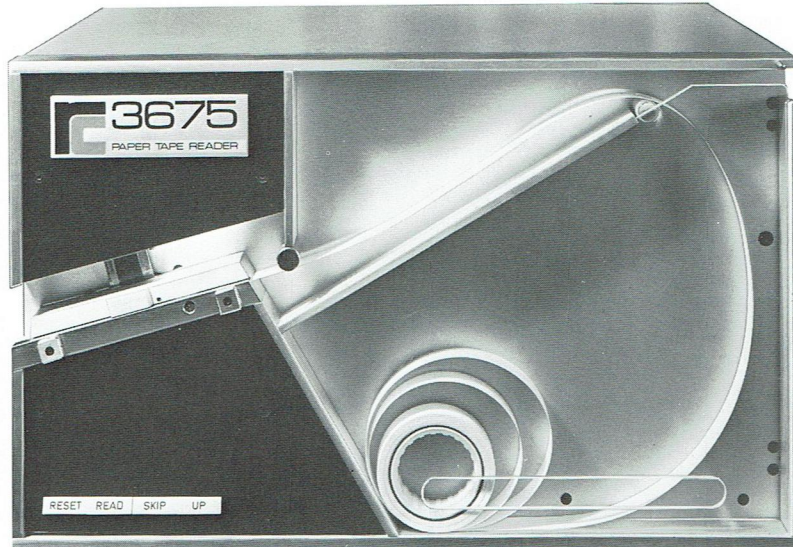


- The unit comprises these elements:
line printer, controller,
and connecting cable.
- The unit presupposes
the RC 3601C Central Unit.

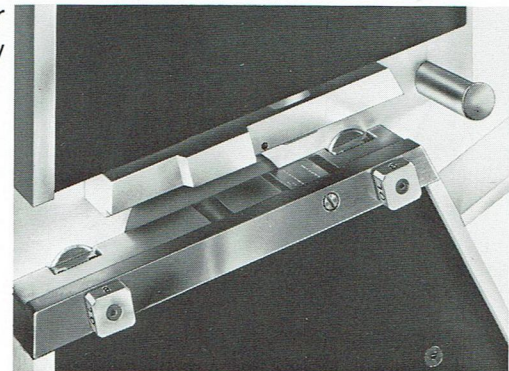
SPECIFICATIONS

	RC 3632	RC 3633	RC 3634	RC 3635	RC 3636
Ambient Temperature	10–40 °C (50–104 °F)				
Relative Humidity	30–80%				
Heat Dissipation	1950 W, 1677 KCAL/h, 6655 BTU/h		1500 W, 1290 KCAL/h, 5120 BTU/h		900 W, 774 KCAL/h, 3072 BTU/h
Dimensions					
Height	116.8 cm (45 ⁹ / ₁₆ inches)				
Width	123.2 cm (48 ¹ / ₁₆ inches)				
Depth	62.2 cm (24 ⁵ / ₁₆ inches)				
Weight	364 kg (800 lbs)			273 kg (600 lbs)	
Mounting Device Controller Board	Free standing Any slot in Controller Chassis Board shared with OCP controller				

RC 3675 2000 cps PAPER TAPE



The RC 3675 is a buffered paper tape reader capable of reading 5, 7, or 8 channel ISO standard tape or 6 channel Olivetti tape at continuously variable speeds of up to 200 inches per second.



SPECIFICATIONS

Read Head

Dual set of photosensors for ISO and Olivetti channel formats

Single light source

Buffer Size

256 8-bit characters

Tape Speed

Continuously regulated from 0 to 200 inches per second according to buffer contents

Performance

2000 char. per second (ISO tape)

1695 char. per second (Olivetti tape)

Tape Widths

8 channel ISO

25.4 mm (1 inch)

7 channel ISO

22.2 mm (7/8 inch)

5 channel ISO

17.5 mm (11/16 inch)

6 channel Olivetti

20.5 mm

Tape Media

Paper, oiled or non-oiled, plastic, mylar, or metalized mylar

Tape Roll Sizes

Outer

200 mm (7³/₄ inches) maximum

Inner

50 mm (2 inches) minimum

Standard Features

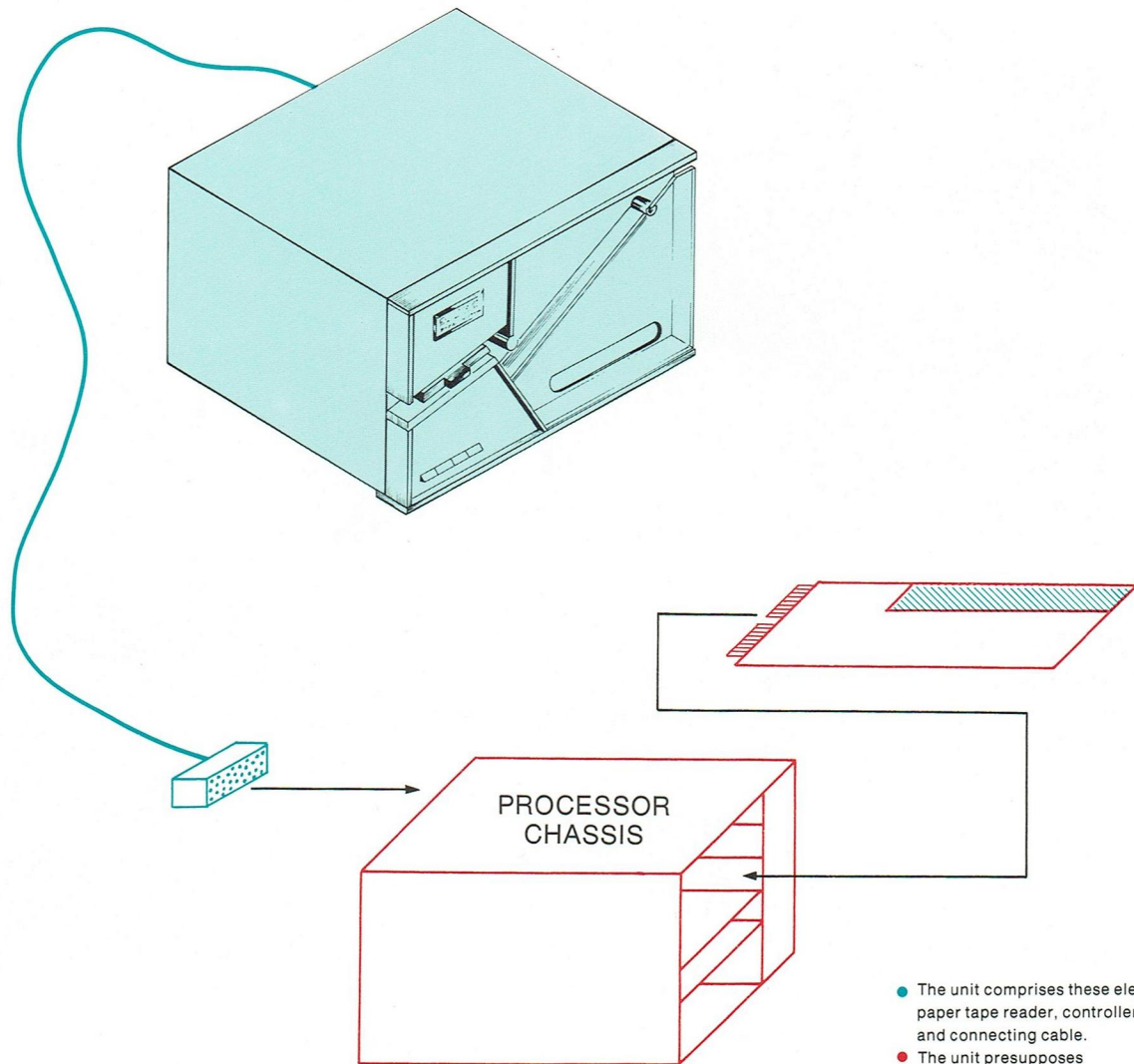
Tape width selector knobs

Dual end-of-tape sensors

Sprocket hole sensor

Adjustment prism

READER



- The unit comprises these elements: paper tape reader, controller and connecting cable.
- The unit presupposes the RC 3601C Central Unit.

SPECIFICATIONS

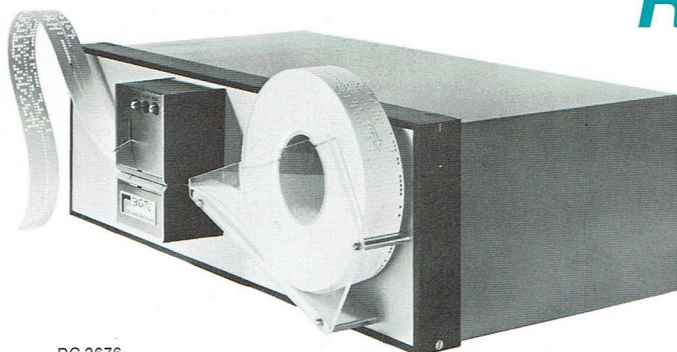
Ambient Temperature	16–32°C (60–90°F)
Relative Humidity	40–70%
Heat Dissipation	200 W, 172 KCAL/h, 683 BTU/h
Dimensions	
Height	32.5 cm (12 ¹¹ / ₁₆ inches)
Width	52.0 cm (20 ⁵ / ₁₆ inches)
Depth	46.5 cm (18 ³ / ₁₆ inches)
Weight	36 kg (79 ¹ / ₄ lbs)
Mounting	
Device	Desk top
Controller	Standard I/O interface board in Processing Unit
Special Note	Only one paper tape reader of any kind may be connected to the RC 3601C Central Unit.



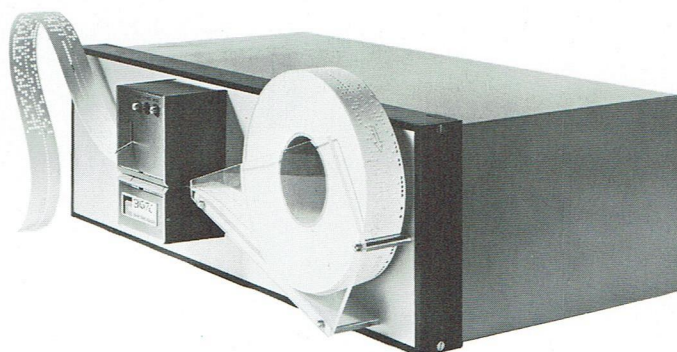
PAPER TAPE

RC 3676 500 cps

RC 3677 420 cps



RC 3676
Paper Tape Reader



RC 3677
Paper Tape Reader

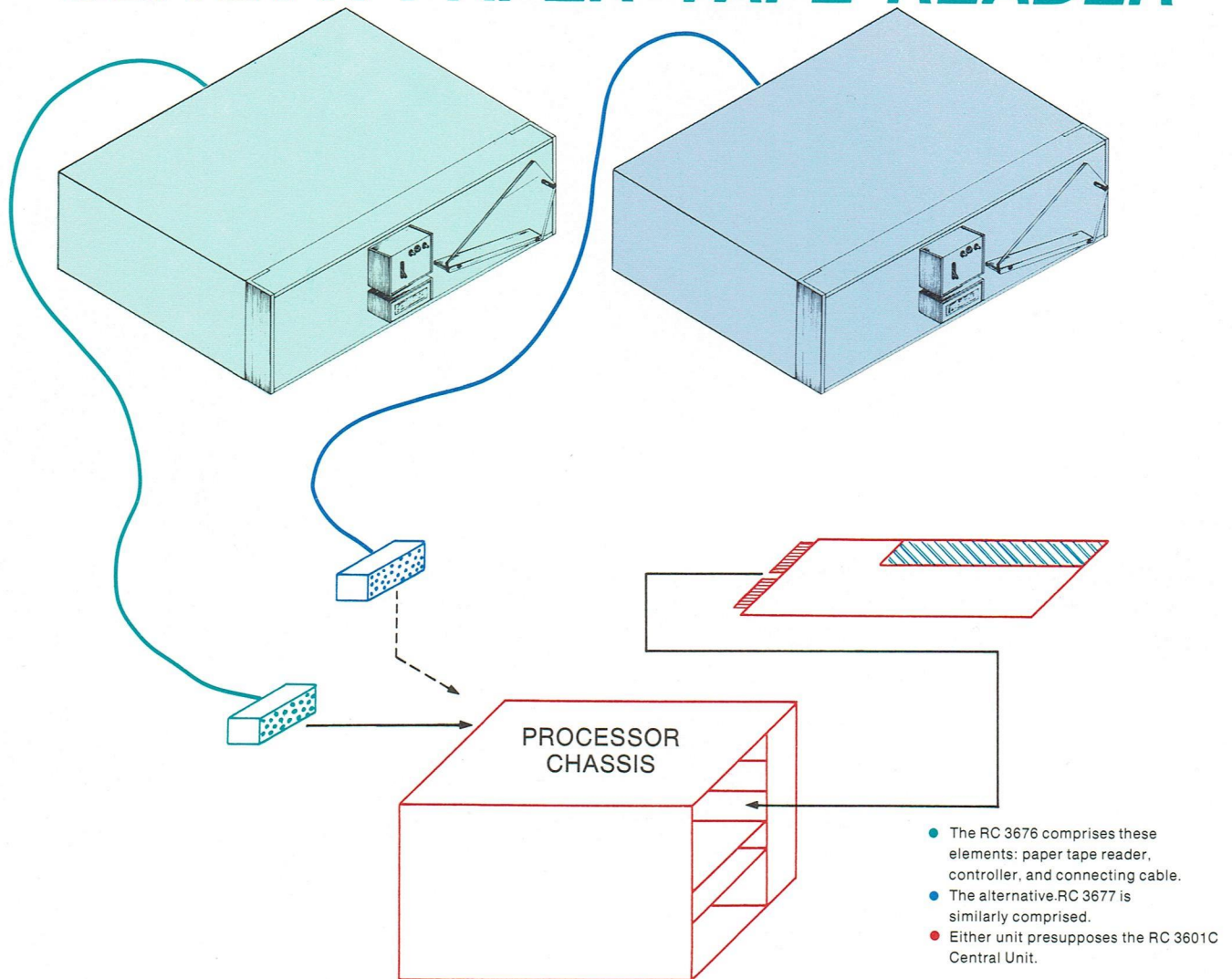
The RC 3676 and RC 3677 are buffered paper tape readers capable, respectively, of reading 8 channel ISO standard tape and 6 channel Olivetti tape at continuously variable speeds of up to 50 inches per second.

SPECIFICATIONS

	RC 3676	RC 3677
Read Head	Light emitting diodes Photosensor array	
Buffer Size	128 8-bit characters	
Tape Speed	Continuously regulated from 0 to 50 inches per second according to buffer contents	
Performance	500 characters per second	420 characters per second
Tape Widths 8 channel ISO 6 channel Olivetti	25.4 mm (1 inch) —	— 20.5 mm
Tape Media	Paper, oiled or non-oiled, plastic, mylar, or metalized mylar	
Tape Roll Sizes Outer Inner	200 mm (7 ³ / ₄ inches) maximum 50 mm (2 inches) minimum	
Standard Features	End of Tape sensing Sprocket hole sensing	End of Tape sensing

ISO PAPER TAPE READER

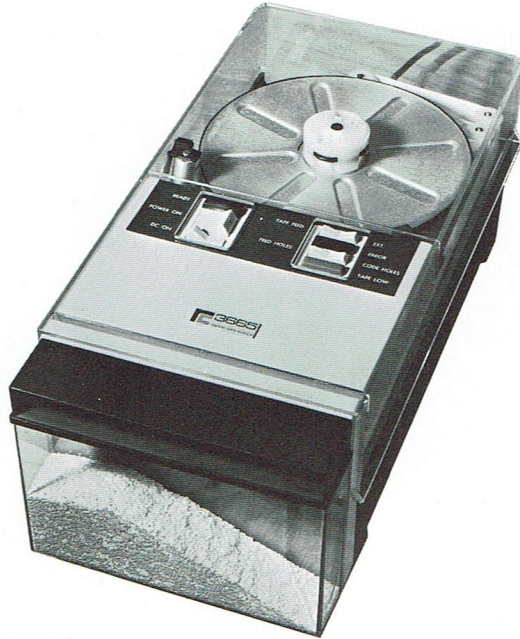
OLIVETTI PAPER TAPE READER



SPECIFICATIONS (BOTH UNITS)

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80%
Heat Dissipation	100 W, 86 KCAL/h, 341 BTU/h
Dimensions	
Height	13.3 cm (5 ³ / ₁₆ inches)
Width	For cabinet mounting or 44.0 cm (17 ³ / ₁₆ inches)
Depth	27.0 cm (10 ⁹ / ₁₆ inches)
Weight	10 kg (22 lbs)
Mounting	
Device	Desk top or cabinet
Controller	Standard I/O interface board in Processing Unit
Special Note	Only one paper tape reader of any kind may be connected to the RC 3601C Central Unit.

RC 3665 75 cps PAPER TAPE PUNCH

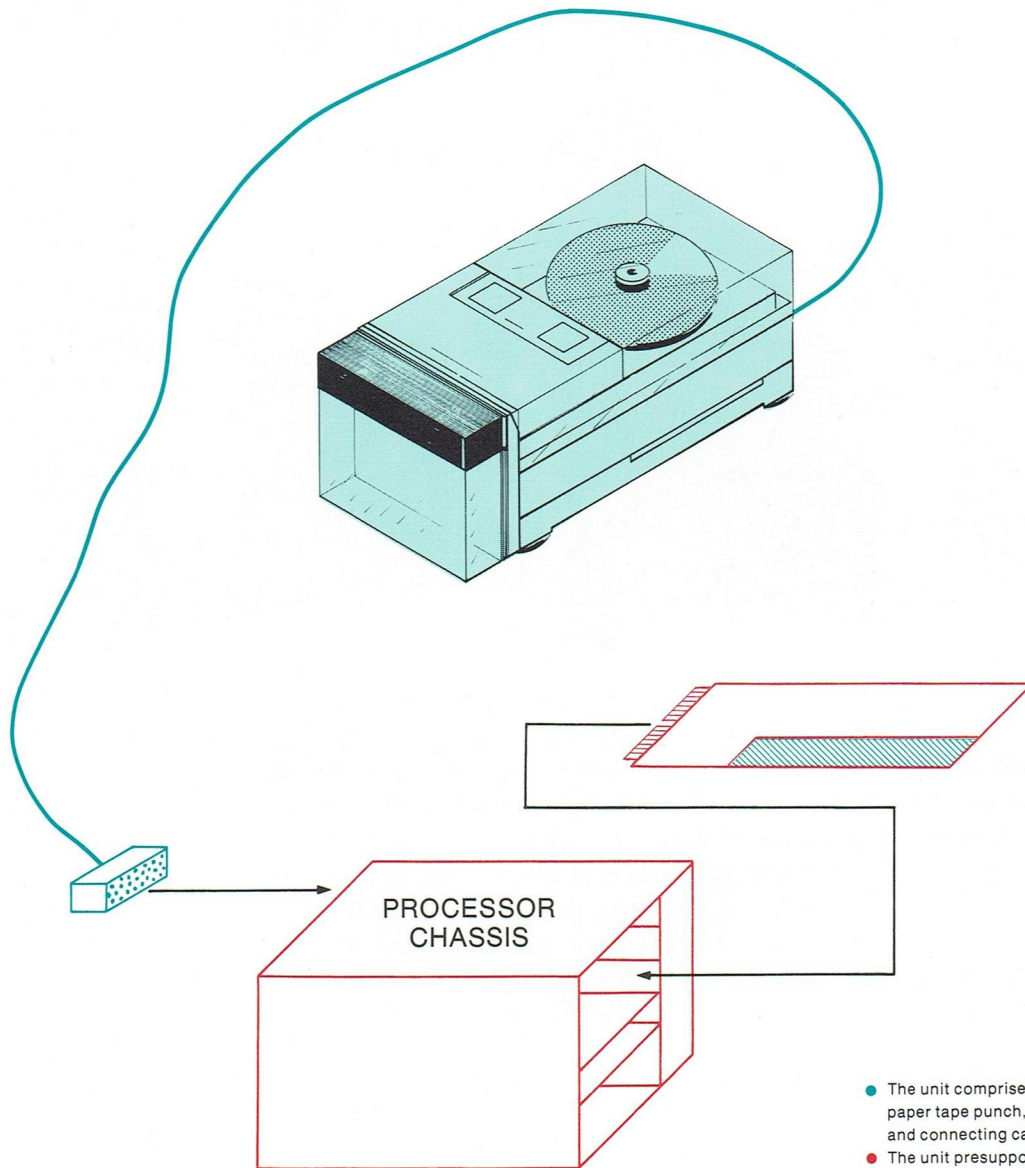


The RC 3665 is capable of punching 5, 7 and 8 channel paper tape in accordance with the appropriate sections of ISO standard R 1154 at an asynchronous speed of 75 characters per second.

SPECIFICATIONS

Punching Speed	75 characters per second, asynchronous
Supply Spool Capacity	Approximately 300 m (1000 feet) of tape, corresponding to about 120,000 characters
Tape Widths	
8 channel ISO	25.4 mm (1 inch)
7 channel ISO	22.2 mm (7/8 inch)
5 channel ISO	17.5 mm (11/16 inch)
Tape Media	Paper, oiled or non-oiled, plastic, mylar, or metalized mylar
Tape Roll Sizes	
Outer	200 mm (7 ³ / ₄ inches) maximum
Inner	50 mm (2 inches) minimum
Tape Feed System	Incremental Single capstan drive, independent of sprocket holes
Tape Punching System	9 solenoid operated punching pins
Standard Features	Tape break detector Tape Low indicator Removable transparent cover and chip box
Special Remark	Punched output tape can either run free or be fed back, clockwise or counter-clockwise, to a take-up spool inside the unit.

PAPER TAPE



- The unit comprises these elements: paper tape punch, controller, and connecting cable.
- The unit presupposes the RC 3601C Central Unit.

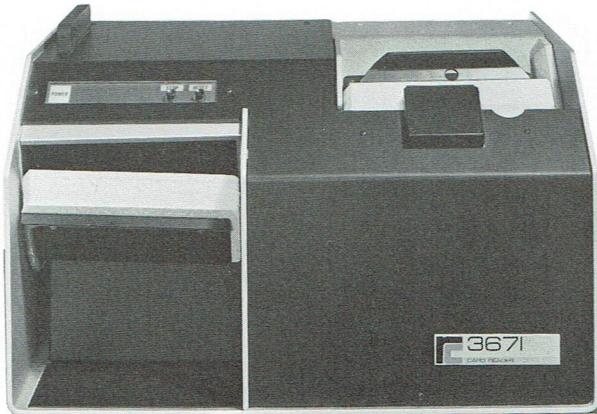
SPECIFICATIONS

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80%
Heat Dissipation	200 W maximum, 172 KCAL/h, 683 BTU/h
Dimensions	
Height	19.8 cm (7 ³ / ₄ inches)
Width	22.0 cm (8 ⁵ / ₈ inches)
Depth	43.2 cm (16 ⁷ / ₈ inches)
Weight	13 kg (28 ³ / ₄ lbs)
Mounting	
Device	Desk top
Controller	Standard I/O interface board in Processing Unit
Special Note	Only one paper tape punch may be connected to the RC 3601C Central Unit.

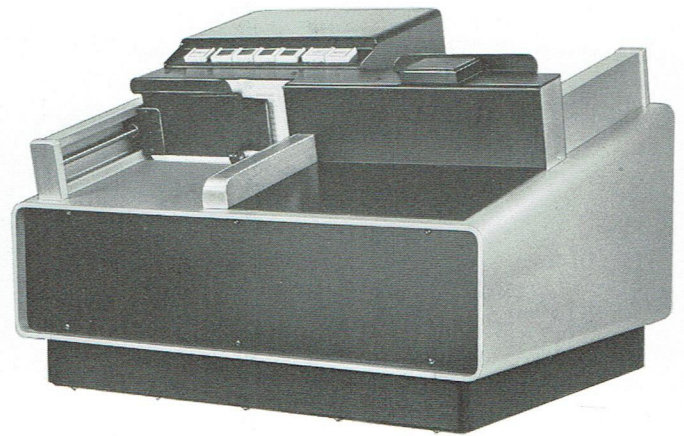
PUNCHED CARDS

RC 3671 C 300 cpm 80 column

RC 3672 C 600 cpm 80 column



RC 3671C
Punched Card Reader



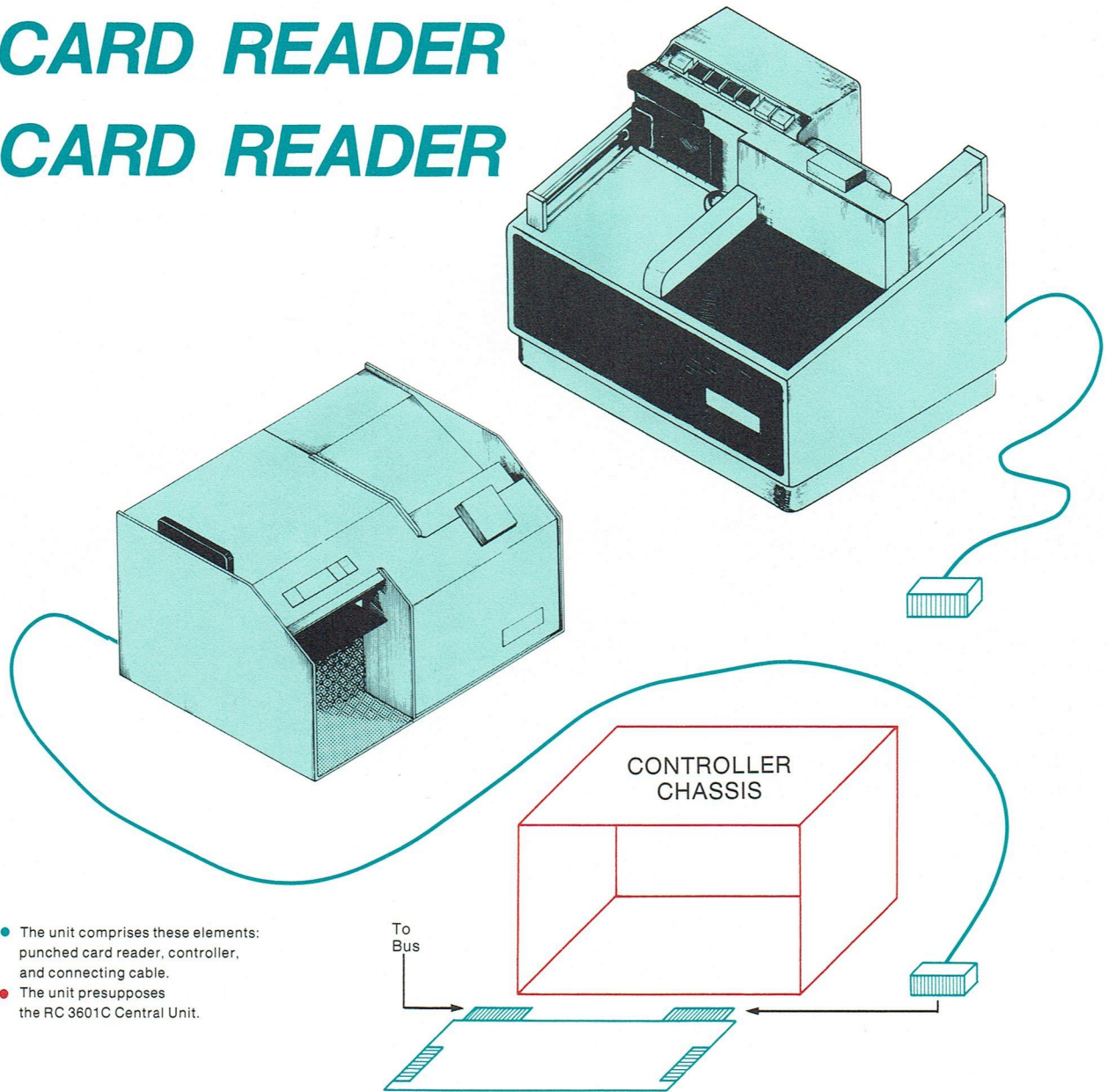
RC 3672C
Punched Card Reader

The RC 3671C and RC 3672C are serial card readers capable of reading standard 80 column punched cards at asynchronous speeds of 300 and 600 cards per minute, respectively. The RC 3671C and RC 3672C type designations include a card reader controller, which enables the punching in each card column to be interpreted as one of the 256 EBCDIC combinations and transferred to memory as a single 8-bit byte. Alternatively, the controller may be switched by program to operate in a column binary mode, in which the contents of each card column are transferred to two adjacent bytes of memory.

SPECIFICATIONS

	RC 3671C	RC 3672C
Card Rate	300 cards per minute, asynchronous	600 cards per minute, asynchronous
Hopper/Stacker Capacity	600 cards	1000 cards
Card Specifications	ANSI specifications for 80 column cards	
Card Codes	Full EBCDIC (including BCD, Hollerith, and other subsets) Column binary	
Card Feed System	Riffle air action in input hopper Vacuum picker Straight-through card track	
Reading System	Infrared light-emitting diodes Phototransistor array Crystal oscillator	
Checks	Light/dark read check Motion check Hopper check	

CARD READER CARD READER

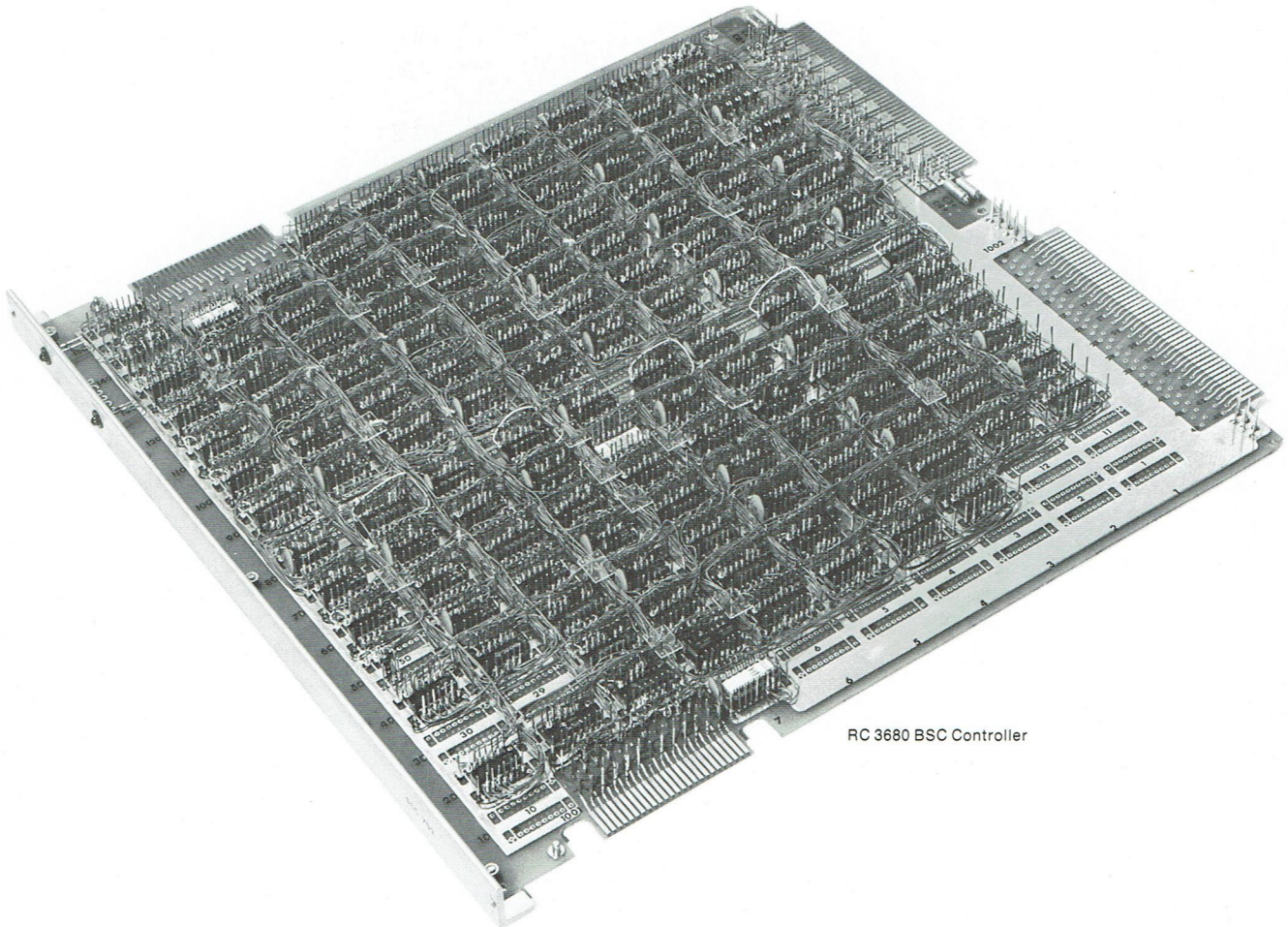


- The unit comprises these elements: punched card reader, controller, and connecting cable.
- The unit presupposes the RC 3601C Central Unit.

SPECIFICATIONS

	RC 3671C	RC 3672C
Ambient Temperature	10–40°C (50–104°F)	
Relative Humidity	30–70%	
Heat Dissipation	570 W, 490 KCAL/h, 1945 BTU/h	600 W, 516 KCAL/h, 2048 BTU/h
Dimensions		
Height	27.9 cm (11 inches)	34.4 cm (13 ⁹ / ₁₆ inches)
Width	48.9 cm (19 ¹ / ₄ inches)	58.6 cm (23 ¹ / ₁₆ inches)
Depth	35.6 cm (14 inches)	47.7 cm (18 inches)
Weight	27.3 kg (60 lbs)	34.0 kg (75 lbs)
Mounting Device	Desk top	
Controller Board	Any slot in Controller Chassis	

RC 3680 BSC CHANNEL



RC 3680 BSC Controller

The RC 3680 BSC Channel interfaces the system to any synchronous half duplex or full duplex modem, operating in accordance with CCITT recommendation V. 24 at speeds of up to 20,000 bits per second.

SPECIFICATIONS

Speed

Up to 20,000 bits per second, as determined by the modem

Character Length

6, 7, or 8 bits, determined by program

Transmission

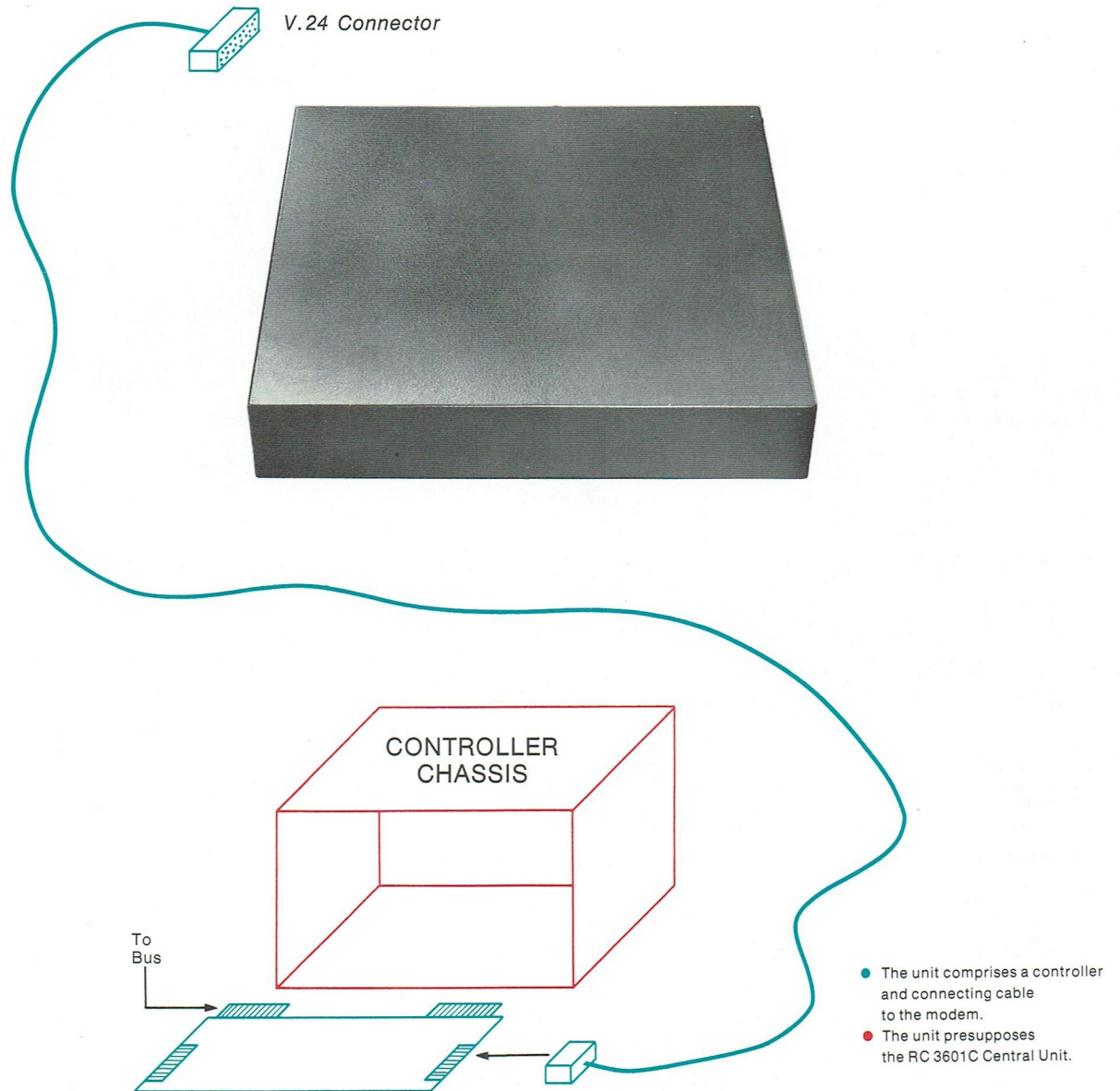
Control Characters

Freely specifiable by program

Communications Protocol

Freely specifiable by program

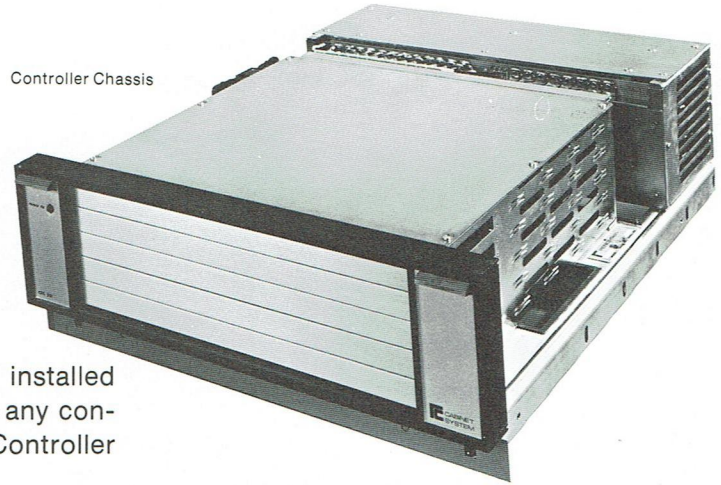
SYNCHRONOUS COMMUNICATION



SPECIFICATIONS

Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80%
Heat Dissipation	Included in Central Unit figures
Dimensions	Standard controller board
Weight	Standard controller board
Mounting	Any slot in Controller Chassis

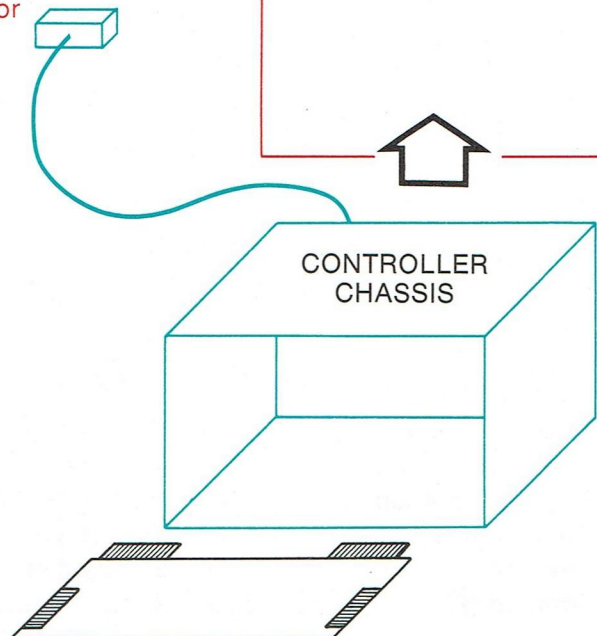
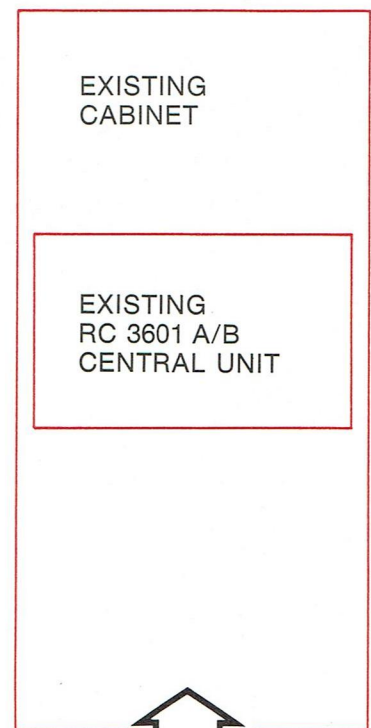
F 110 CONTROLLER CHASSIS



This modification kit adapts a previously installed RC 3601A or RC 3601B Central Unit to accept any controller board designated for mounting in the Controller Chassis of the RC 3601C Central Unit.

SPECIFICATIONS

No. of Slots	5
Ambient Temperature	10–40°C (50–104°F)
Relative Humidity	20–80%
Heat Dissipation	400 W maximum, 344 KCAL/h, 1365 BTU/h
Dimensions	
Height	17.7 cm (7 inches)
Width	For cabinet mounting
Depth	For cabinet mounting
Weight	22 kg (48 lbs)
Mounting	RC 3601A or RC 3601B Cabinet
Special Note	The F 110 is not required for the connection of the Operator Control Panel, any magnetic tape unit, or any line printer to the RC 3601A or RC 3601B Central Unit.

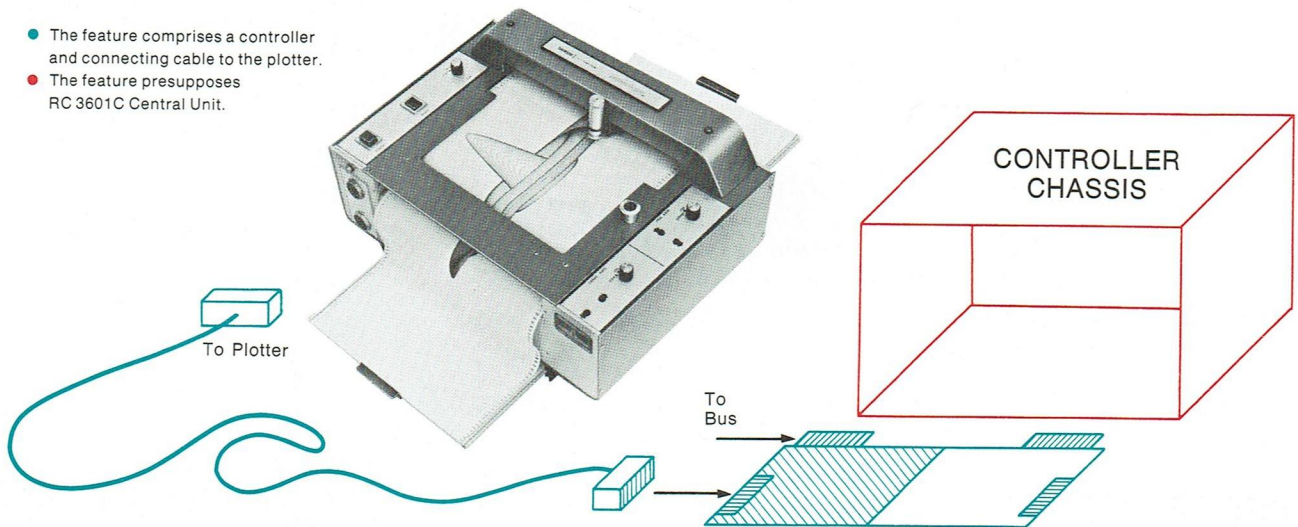


- The feature comprises a controller chassis and connecting cable to the existing central unit.
- The feature presupposes an existing RC 3601A/B Central Unit and cabinet.

F 71 INCREMENTAL PLOTTER ADAPTOR

The F 71 Incremental Plotter Adaptor interfaces the system to a Calcomp 563 or 565 drum plotter or a Houston Instrument DP-1 flatbed plotter.

- The feature comprises a controller and connecting cable to the plotter.
- The feature presupposes RC 3601C Central Unit.

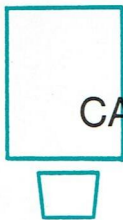


SPECIFICATIONS

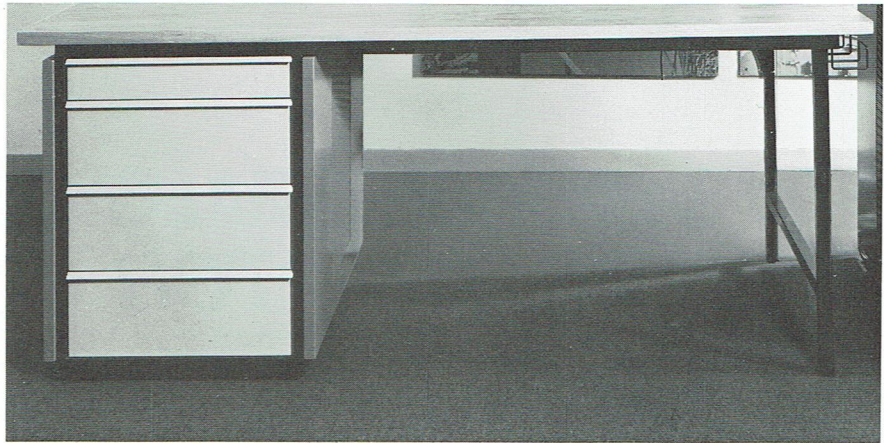
	563	565	DP-1
Paper	30 inch, rolled	12 inch, rolled	12 inch, fan-folded
Plotting Area			
X-Axis	120 feet (36.6 m)	120 feet (36.6 m)	144 feet (43.9 m)
Y-Axis	28 ⁵ / ₈ inches (72.7 cm)	11 inches (27.9 cm)	11 inches (27.9 cm)
Increment Size	0.01 inch (0.254 mm), 0.005 inch (0.127 mm), or 0.1 mm	0.01 inch (0.254 mm), 0.005 inch (0.127 mm), or 0.1 mm	0.01 inch (0.254 mm), 0.005 inch (0.127 mm), 0.1 mm, or 0.25 mm
Speed	200 steps per second (0.01 inch) 300 steps per second (0.005 inch or 0.1 mm)	300 steps per second	300 steps per second

SPECIFICATIONS

	F 71	563	565	DP-1
Ambient Temperature	10–40°C (50–104°F)	10–40°C (50–104°F)		
Relative Humidity	20–80%	20–80%		
Heat Dissipation	Included in Central Unit figures	350 W, 301 KCAL/h, 1195 BTU/h		
Dimensions				
Height	Standard controller board	25.4 cm (10 inches)	25.4 cm (10 inches)	25.4 cm (10 inches)
Width		101.6 cm (40 inches)	45.7 cm (18 inches)	45.7 cm (18 inches)
Depth		38.1 cm (15 inches)	38.1 cm (15 inches)	76.2 cm (30 inches)
Weight	Standard controller board	24 kg (53 lbs)	15 kg (33 lbs)	18 kg (40 lbs)
Mounting	Any slot in Controller Chassis	Desk top		



CABINETS



Desk Top Cabinet

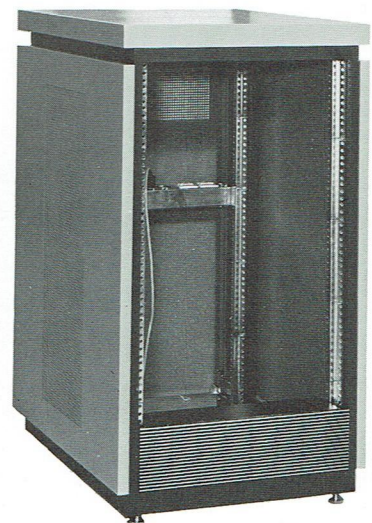
CABINETS

RC 3600 Series units intended for cabinet mounting may use the available rack space (85.7 cm) in the cabinet belonging to any "S" Series magnetic tape unit. Alternatively, they may use the free-standing Desk Top Cabinet (F 91) or Midi Cabinet (F 92), which provide, respectively, 48.9 cm and 75.6 cm of rack space.

Units indicated for desk top mounting, such as card readers, paper tape readers and punch, and the alphanumeric keyboard-display, can be located on the Desk Top Cabinet.

Optional 7 inch accessory drawers (F 97) or 3 1/2 inch drawers (F 98) may be mounted in unused rack space in any cabinet. Every cabinet will be supplied with a front panel to cover any remaining space or equipment to which access is not required for normal operating purposes.

All cabinets are equipped with an AC power distribution panel and a ventilation fan fitted with an air filter. Ventilation capacity is adequate to maintain all equipment mounted in a fully loaded cabinet within its operating temperature limits, provided that the ambient temperature remains within the specified range.



Midi Cabinet

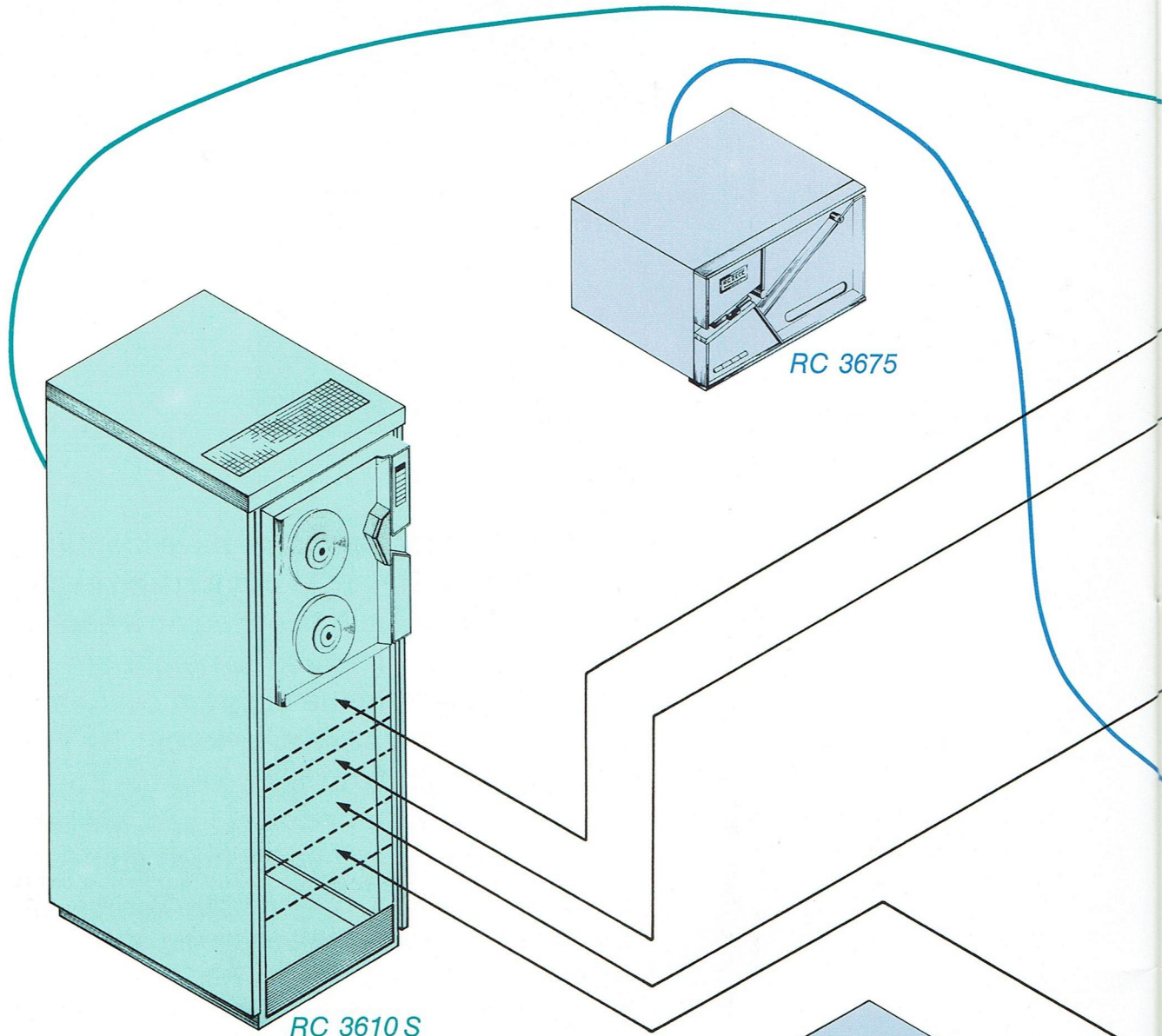
SPECIFICATIONS

	F 91	F 91 Cabinet Alone	F 92	Tape Unit Cabinet
Rack Space	—	48.9 cm (19 1/4 inches)	75.6 cm (29 3/4 inches)	85.7 cm (33 3/4 inches)
External Dimensions				
Height	72 cm (28 1/8 inches)	—	106.0 cm (41 3/8 inches)	178.0 cm (69 7/16 inches)
Width	200 cm (78 inches)	57.5 cm (22 7/16 inches)	57.5 cm (22 7/16 inches)	57.5 cm (22 7/16 inches)
Depth	90 cm (35 1/8 inches)	73.5 cm (28 11/16 inches)	73.5 cm (28 11/16 inches)	73.5 cm (28 11/16 inches)
Weight	65 kg (143 lbs)	—	75 kg (165 lbs)	Included in tape unit figures
Heat Dissipation	30 W, 26 KCAL/h, 102 BTU/h			
Ventilation Capacity	250 cubic meters (8830 cubic feet) per hour			
Optional Features	7 inch drawers (F 97) 3 1/2 inch drawers (F 98)			

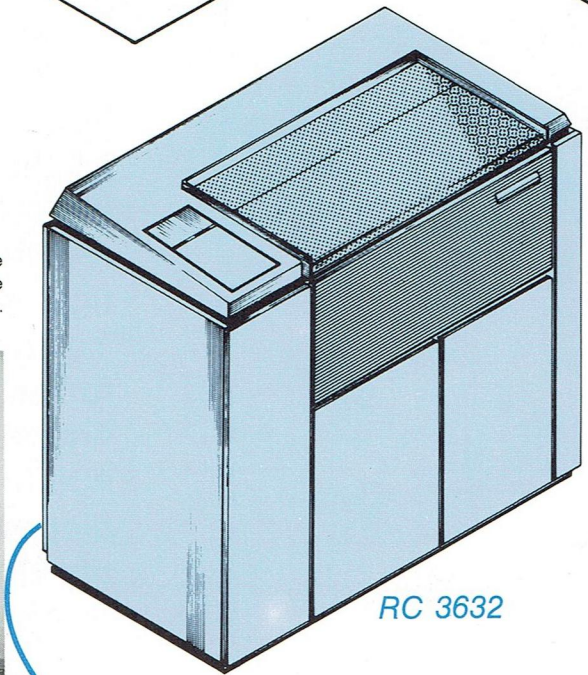
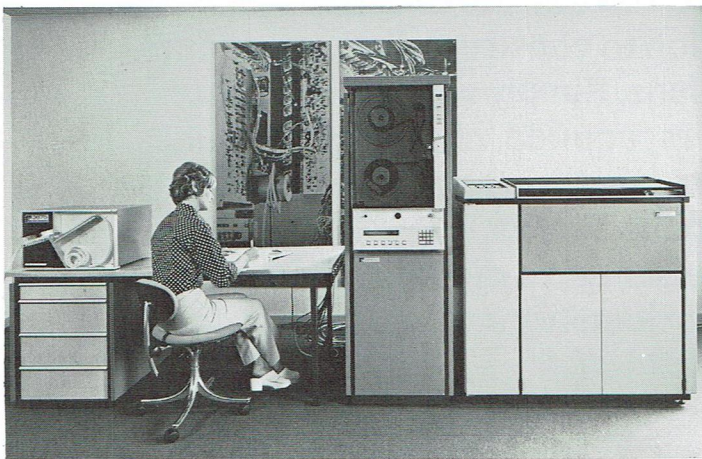
In the preceding pages we have identified the hardware elements comprising each RC 3600 Series unit, showing how each unit relates physically to its neighbors within a system. In the diagram overleaf you will see how several units can be linked together to form a complete configuration. The color codes used will help you to check that all the defined components of each unit are present, and that no others are needed to achieve an integrated system.

RC 3600 Series hardware units are thus truly modular. All that is necessary to build a configuration can be specified by a simple listing of the required units and features. On subsequent pages you will see six further examples of possible configurations of RC 3600 hardware.

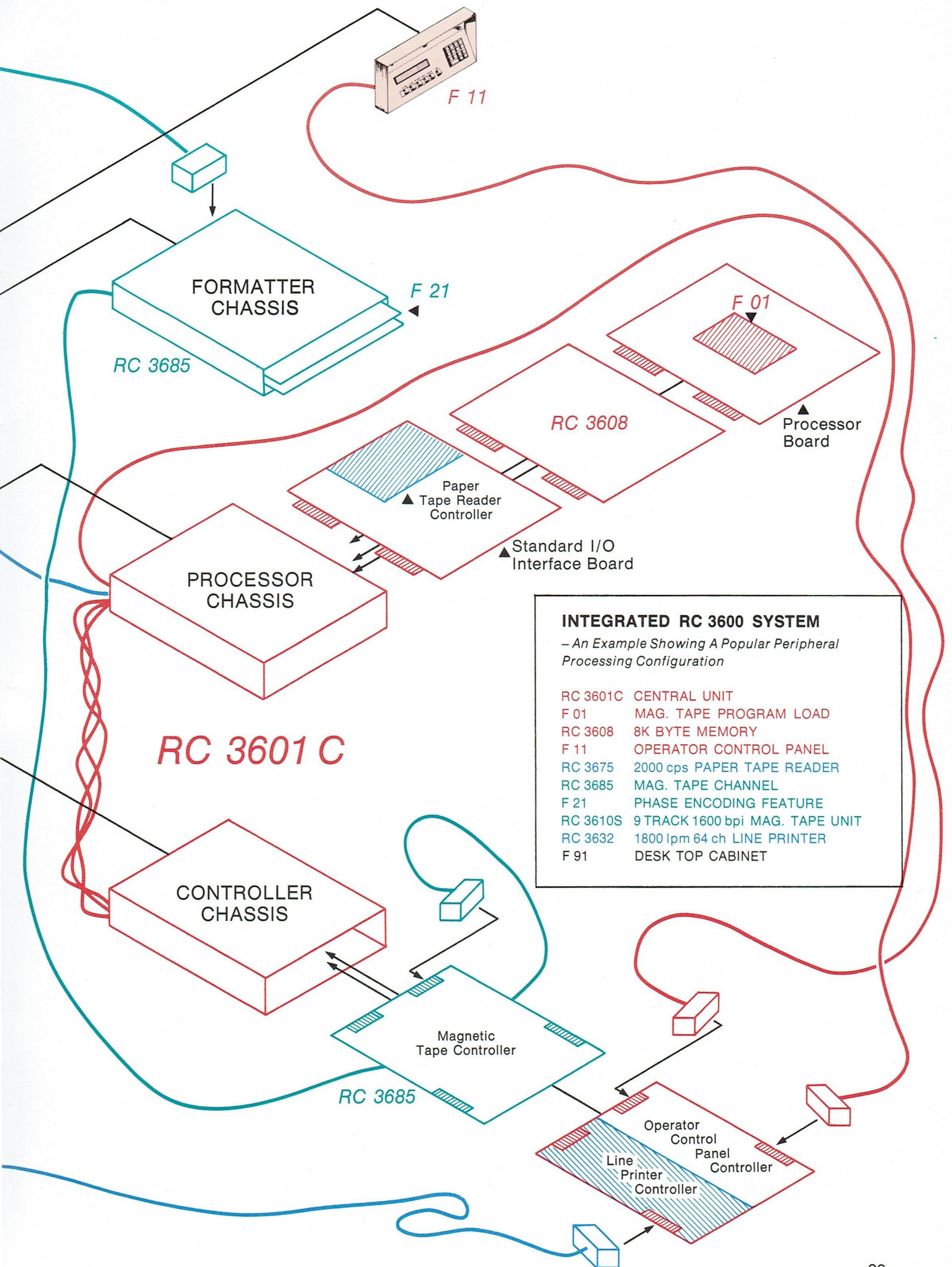
You now have all the necessary information to construct many more configurations. Simply write down the unit numbers required, check from the unit diagrams that you have enough slots for the circuits boards, enough rack space for chassis, and a device suitable for program loading, and you have a viable configuration.



Photograph of the same configuration showing the F 91 Desk Top Cabinet.



From the left:
RC 3675 on F 91, RC 3610S with F 11, RC 3632.

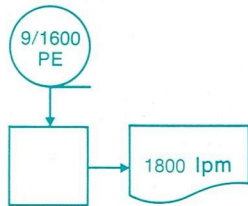


INTEGRATED RC 3600 SYSTEM
 – An Example Showing A Popular Peripheral Processing Configuration

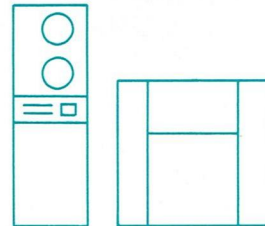
RC 3601C	CENTRAL UNIT
F 01	MAG. TAPE PROGRAM LOAD
RC 3608	8K BYTE MEMORY
F 11	OPERATOR CONTROL PANEL
RC 3675	2000 cps PAPER TAPE READER
RC 3685	MAG. TAPE CHANNEL
F 21	PHASE ENCODING FEATURE
RC 3610S	9 TRACK 1600 bpi MAG. TAPE UNIT
RC 3632	1800 lpm 64 ch LINE PRINTER
F 91	DESK TOP CABINET

TYPICAL RC 3600

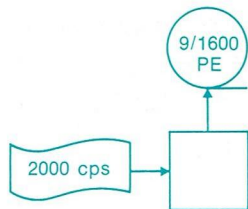
BASIC OFF-LINE PRINT SYSTEM



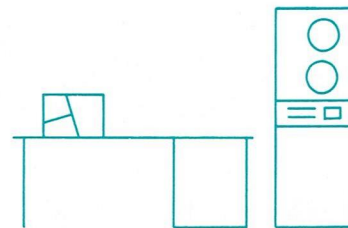
- | | |
|----------|---------------------------------|
| RC 3601C | CENTRAL UNIT |
| F 01 | MAG. TAPE PROGRAM LOAD |
| RC 3608 | 8K BYTE MEMORY |
| F 11 | OPERATOR CONTROL PANEL |
| RC 3685 | MAG. TAPE CHANNEL |
| F 21 | PHASE ENCODING FEATURE |
| RC 3610S | 9 TRACK 1600 bpi MAG. TAPE UNIT |
| RC 3632 | 1800 lpm 64 ch LINE PRINTER |



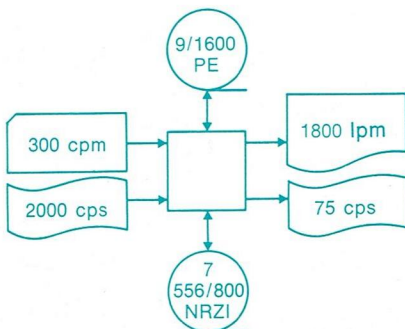
BASIC CONVERTER SYSTEM



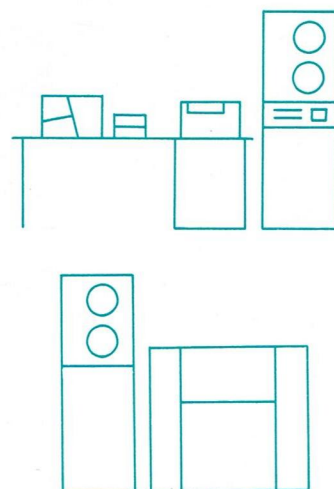
- | | |
|----------|---------------------------------|
| RC 3601C | CENTRAL UNIT |
| F 01 | MAG. TAPE PROGRAM LOAD |
| RC 3608 | 8K BYTE MEMORY |
| F 11 | OPERATOR CONTROL PANEL |
| RC 3675 | 2000 cps PAPER TAPE READER |
| RC 3685 | MAG. TAPE CHANNEL |
| F 21 | PHASE ENCODING FEATURE |
| RC 3610S | 9 TRACK 1600 bpi MAG. TAPE UNIT |
| F 91 | DESK TOP CABINET |



EXTENDED PERIPHERAL PROCESSING SYSTEM

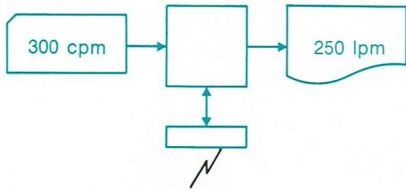


- | | |
|----------|-------------------------------------|
| RC 3601C | CENTRAL UNIT |
| F 01 | MAG. TAPE PROGRAM LOAD |
| RC 3607 | 16K BYTE MEMORY |
| F 11 | OPERATOR CONTROL PANEL |
| RC 3671C | 300 cpm CARD READER |
| RC 3675 | 2000 cps PAPER TAPE READER |
| RC 3685 | MAG. TAPE CHANNEL |
| F 21 | PHASE ENCODING FEATURE |
| F 22 | NRZI FEATURE |
| F 25 | 556/800 bpi DENSITY SELECTION |
| RC 3610S | 9 TRACK 1600 bpi MAG. TAPE UNIT |
| RC 3690S | 7 TRACK DUAL-DENSITY MAG. TAPE UNIT |
| RC 3632 | 1800 lpm 64 ch LINE PRINTER |
| RC 3665 | 75 cps PAPER TAPE PUNCH |
| F 91 | DESK TOP CABINET |

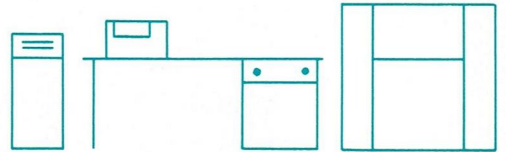


CONFIGURATIONS

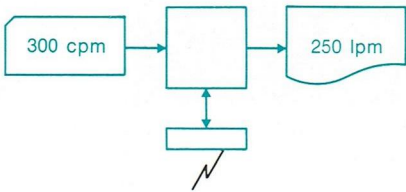
BASIC 2780 TERMINAL SYSTEM



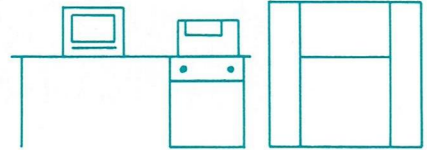
RC 3601C	CENTRAL UNIT
F 03	PUNCHED CARD PROGRAM LOAD
RC 3607	16K BYTE MEMORY
F 12	KSR TELETYPE
F 19	POWER AND AUTOLOAD PANEL
RC 3680	BSC CHANNEL
RC 3671C	300 cpm CARD READER
RC 3636	250 lpm 64 ch LINE PRINTER
F 91	DESK TOP CABINET



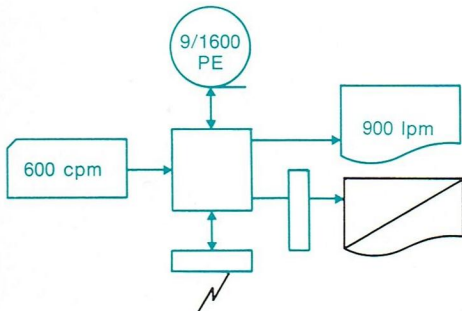
BASIC 200 UT TERMINAL SYSTEM



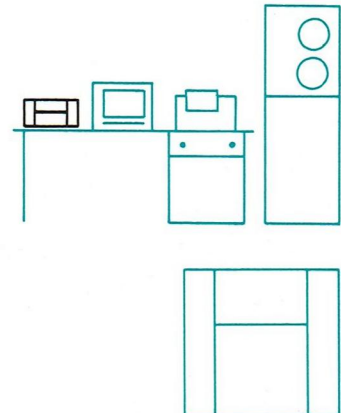
RC 3601C	CENTRAL UNIT
F 03	PUNCHED CARD PROGRAM LOAD
RC 3607	16K BYTE MEMORY
F 13	ALPHANUMERIC KEYBOARD-DISPLAY
F 19	POWER AND AUTOLOAD PANEL
RC 3680	BSC CHANNEL
RC 3671C	300 cpm CARD READER
RC 3636	250 lpm 64 ch LINE PRINTER
F 91	DESK TOP CABINET



EXTENDED TERMINAL SYSTEM



RC 3601C	CENTRAL UNIT
F 01	MAG. TAPE PROGRAM LOAD
RC 3607	16K BYTE MEMORY
F 13	ALPHANUMERIC KEYBOARD-DISPLAY
F 19	POWER AND AUTOLOAD PANEL
RC 3680	BSC CHANNEL
RC 3685	MAG. TAPE CHANNEL
F 21	PHASE ENCODING FEATURE
RC 3610S	9 TRACK 1600 bpi MAG. TAPE UNIT
RC 3672C	600 cpm CARD READER
RC 3634	900 lpm 64 ch LINE PRINTER
F 71	INCREMENTAL PLOTTER ADAPTOR
F 91	DESK TOP CABINET





RC 3600 magnetic tape terminal at Sparekassernes Datacentraler, the data center of Denmark's largest savings bank network.



SCANDINAVIAN INFORMATION PROCESSING SYSTEMS

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