MEMOREX
EPG—MARKETING

Fred— This looks pretty good to my admittedly untrained eye (I don't know nothing 'bout CRTs) — However, it seems to me that we should give engineering some relatively concrete objectives in terms of size, cost to manufacture, and maintenance characteristics (CI and SCI), & incremental direct cost of each feature

Issue A

Date 9/6/77

Product Functional Objectives

Good work! Hope it gets you what you want.
WJS

Product Type TERMINAL DISPLAY STATION

Product Name 2078

Sub-models included 2377

MEMOREX PRIVATE
Technical — Scientific

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for Memorex internal use only

PERSONAL COPY OF
W. J. SCHROEDER

Date Distributed 9/6/77

REPRODUCTION PROHIBITED

Understood/Accepted:

Engineering Project	Date

Development Engineering	Date

Approved by:

Product Planning	Date

Marketing	Date

FORM 3000-1A

INTRODUCTION: The purpose of this statement is to:

1. Provide the guidelines for the 2078 Display Station.

2. Provide the guidelines for the upgradeability of the 1377 Model 4 to become a smart terminal called the 2377.

   This statement assumes that all current features of the 1377 Model 4 will be included on the 2078.

   Of overriding importance is the appearance of the 2078. The 2078 must be equal to or superior to the design of the 1377 Model 4.

human-engineering

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MEMOREX 2078 DISPLAY STATION

1.0 PURPOSE: To provide an enhanced cathode ray tube (CRT) display station used in clusters for displaying or entering data into and receiving data from a S/360, S/370, 3790 Communications System, System 3 Model 12 & 15, System 1 and Systems 32 and 34.

2.0 ATTACHMENT OPTIONS:

The 2078 Display Station will attach to the following Control Units:

2.1.1 IBM 3271
.2 IBM 3272
.3 IBM 3274
.4 IBM 3276
.5 IBM 3790 Communication System
.6 MRX 2074
.7 MRX 2076
.8 MRX 1371
.9 MRX 1372
.10 IBM System 3 via L.D.A.
.11 IBM System 3 via I.C.A.
.12 IBM System 3 via D.A.
.13 IBM System 3 via L.C.A.
.14 IBM System 3 via B.S.C.A.
.15 IBM System 1
.16 IBM System 32
.17 IBM System 34

3.0 DISPLAY STATION SIZE:

The 2078 Display Station will provide 4 basic screen sizes:

3.1.1 Model 1 - 960 characters 12 lines of 80 characters each.
.2 Model 2 - 1920 characters 24 lines of 80 characters each.
.3 Model 3 - 2560 characters 32 lines of 80 characters each.
.4 Model 4 - 3440 characters 43 lines of 80 characters each.

3.2.0 Model 1, 2, and 3 should have 7x14 dot matrix characters and the Model 4 a 7x9 dot matrix.

3.3.0 Characteristics
.1 26 upper case alphabetic
.2 26 lower case alphabetic

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3.3.3 10 numbers
.4 32 special characters

4.0 HUMAN ENGINEERING FACTORS:

4.1.1 Non-Blinking Screen (No Refresh Interupt).
.2 Operator adjustable keyboard click.
✓ .3 A.V.I. Display dots in every character position of a data field that has not been entered.
.4 Operator selectable cursor mode when attached to an IBM 3274 or MRX 2074.
.5 Improved design with regard to size and shape.

5.0 EXTENDED EDITING FUNCTIONS:

5.1.1 Home Key.
.2 Switchable Fast Cursor Control (Logical or Physical Switch).

6.0 PROBLEM DETERMINATION PROCEDURES:

6.1.1 Customer accessible diagnostic tests.
.2 Easily understood problem determination guide.
.3 Easily accessible alignment controls.

7.0 CHARACTER SETS:

7.1.1 EBCDIC - Used in conjunction with the typewriter keyboards or data entry keyboard.
.2 ASC II - Used in conjunction with the typewriter keyboards.

8.0 KEYBOARDS:

8.1.1 92 Key EBCDIC Typewriter.
.2 92 Key ASC II Typewriter.
.3 80 Key EBCDIC Typewriter with Numeric Pad - Type A.
.4 80 Key ASC II Typewriter with Numeric Pad - Type A.
.5 80 Key EBCDIC Operator Console.
.6 80 Key EBCDIC Data Entry.
.7 80 Key EBCDIC Data Entry with Numeric Pad - Type A.
.8 APL
.9 KATACANA
.10 COUNTRY KBDS

This design will allow a key position to be either typematic or non-typematic thus providing flexibility for special applications.

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9.0 CHARGEABLE FEATURES:

9.1.0 Hardware
- .1 Audible Alarm
- .2 Magnetic Slot Reader
- .3 Switch Control Unit — 2 (3rd)
- .4 Selector Light Pen
- .5 OCR Wand ✓
- .6 Bar Code Reader
- .7 Selectable Interface Feature

  9.1.7.1 IBM 3271, 3272
  - .2 IBM 3274
  - .3 IBM System 1
  - .4 IBM System 34

- .8 Cryptographic Capability. ✓

10.0 2377 DISPLAY STATION:

10.1.0 The 2377 is an upgraded 1377 Model 4. The standard features of the 1377 Model 4 will be standard features of the 2377.

10.2.0 Characteristics
- .1 Field upgradeable.
- .2 New PCB to fit current 1377 keyboard.
- .3 PCB to include MRX 550 floppy disk attachment.

10.3.0 Software - The following software will be offering with the 2377.
- .1 Edit package.
- .2 Multi level security system.

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