

## FROM DIGITAL ENGINEERING: RETRO-GRAPHICS FOR THE DUMB TERMINAL.

**You wouldn't think computer graphics was possible on the Lear Siegler ADM-3A Dumb Terminal®, but it is.** It's as simple as slipping model RG-512 Retro-Graphics™ PC card into the 3A (or 3A+) and connecting several plugs.

With Retro-Graphics the terminal has full vector drawing and point plotting capabilities on a 512 x 250 grid. Plus, Tektronix® Plot 10™ software compatibility. All in one neat package at an affordable list price.

And if you add in the ADM-3A, the asking price for the fully equipped graphics terminal is about half the cost of a comparable graphics terminal.

**High-powered graphics and flexibility.** Once installed, the extraordinary capabilities of Retro-Graphics becomes visible.

The RG-512 functions in four distinct modes: vector, point, ADM-3A alpha, and Tektronix 4010 alpha. Enough modes for a variety of tasks.

For example, in vector mode lines can be drawn automatically by simply calling out end points. In ADM alpha mode alphanumeric characters can be overlaid without destroying the original graph. Plus, a selective erase capability allows vector removal without erasing and redrawing the entire display.

These features mean flexibility. Whether you're drawing bar charts, function plots or histograms. Whatever your mood, there's a mode.

**Software compatibility — the added dimension.** Because Retro-Graphics is compatible with the industry standard, Tektronix Plot 10, software development is nil. Plot 10 is a graphics software package that is readily available and ideally suited for a computer graphics newcomer.

Even if you're a current Tektronix user, RG-512 fits right in without software modification. In fact, the Retro-Graphics terminal can replace Tektronix 4006's, 4010's and 4025's in many applications.

So, whether you decide upon an RG-512 equipped Dumb Terminal, or field upgrade your existing terminal, the result is the same: economical, sophisticated graphics capability.

**Digital Engineering.** Our graphic answer is value.

## Retro-Graphics Model RG-512

### Features

Easily fits into Lear Siegler ADM-3A (or 3A+) Dumb Terminal.

Tektronix Plot 10 software compatibility.

Automatic vector generation, point plotting and selective erase.

Graphics plus alphanumeric modes; printer and cursor attachments.

Affordable price: RG-512 plus the terminal.

### Benefits

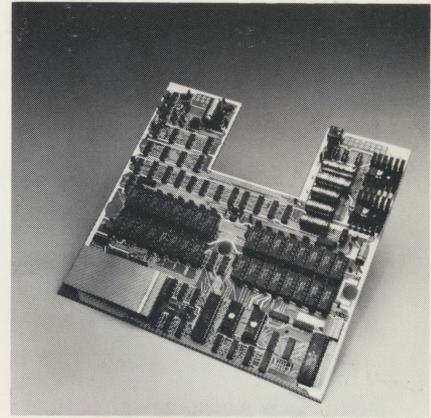
Confidence — popular, proven computer terminal with wide user base.

Convenience — fits right in with no software modification.

Project efficiency — sophisticated graphics made easy.

Project versatility — Digital Engineering does it all.

Cost savings and value — less than half the cost of comparable graphics terminals.



### Operating Environment

5°C to 37°C (41°F to 100°F), 5% to 95% humidity (non-condensing)

### RG-512 Attachments (Digital Engineering)

**Graphx-Printer** model GP-100, electrosensitive hardcopy printer  
**Graphx-Cursor** model X-12, cross-hair cursor

Specifications subject to change without notice.

## SPECIFICATIONS

### Operation

**Graphics memory** 128K bits of NMOS dynamic RAM

**Plotting resolution** 512 horizontal by 250 vertical

**Vector drawing time** (1200) baud 13.5 ms half screen/25.0 ms full screen

**Vector mode** draws vectors automatically from vector endpoint coordinates

**Point mode** plots individual points

**ADM alpha mode** displays 24 lines of 80 characters, non-destructive, provides all standard ADM-3A (or 3A+) features  
**4010 alpha mode** displays 35 lines of 73 characters

### Power Requirements (Retro-Graphics)

Provided by ADM-3A (or 3A+) power supply

**Input voltage** 9.4 VAC, 20.5 VAC, 31 VAC  $\pm$  10%

**Power consumption** 15 Watts

**Dimensions** board mounts inside ADM-3A (or 3A+) terminal

**Width** 12.31" (31.25 cm)

**Depth** 12" (30.48 cm)

**Weight** 2.3 lbs. (1.13 kg) approx.



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