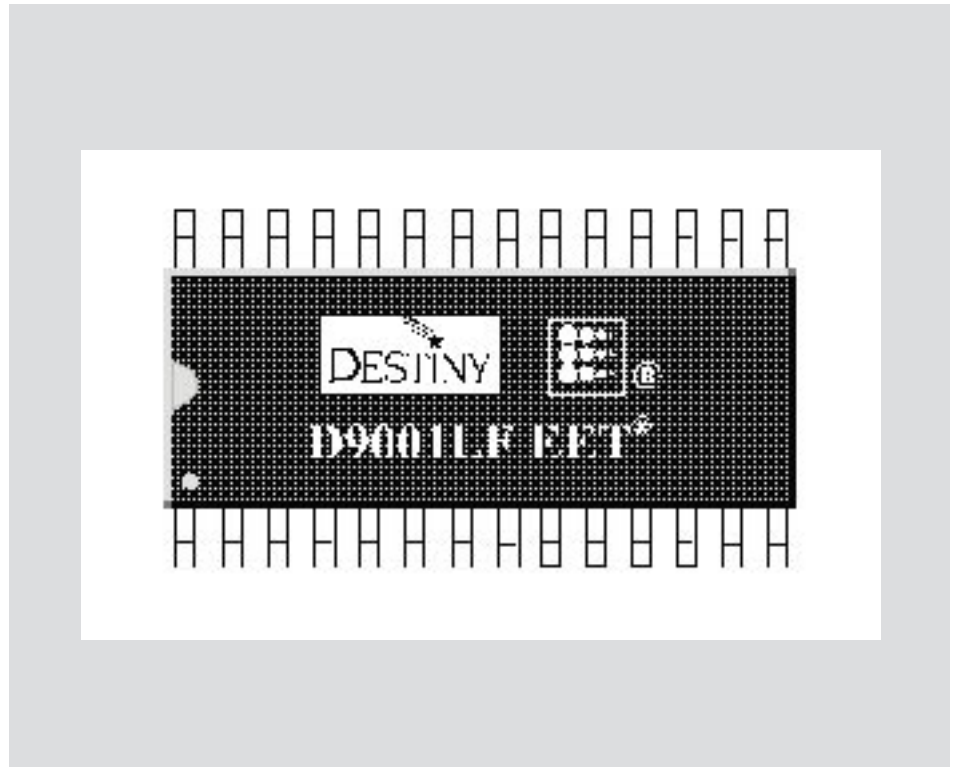# D9001LF

- Edge Enhancement Technology (EET*) ASIC For PPF, Printers & MFP
- Detects and Smoothes Jagged Edges
- Saves Total Memory Cost
- *TonrSavR*, Which SupportsThree Toner Saving Modes
- Various Subdot Selection (6, 8, 10, 12, or 16 Subdots)
- Supports Video Clock Up to 22 MHz
- Programmable Modulation Registers to Allow Customization
- Supports B4 and A4
- Two D9001LF Devices Can Be Cascaded to Support 400 dpi/A3 Laser Engine and 600 dpi Fax Engine
- CMOS Technology
- 28-Pin SOP

The D9001LF is an image enhancement ASIC used on plain paper fax (PPF) machines, printers and multifunction peripheral (MFP) devices, DESTINY's Edge Enhancement Technology (EET) family of ASICs detect and smooth jagged edges inherently found in raster image printed outputs. This smoothing is achieved by boosting the resolution of un-enhanced printing by several times, dividing a full dot (pixel) into 6, 8, 10, 12, or 16 subdots, and all without the need for any external software support. A patent has been granted for techniques and intelligent properties used in the family of ASICs. The D9001LF supports both LED and laser printer engine outputs.

In addition to smoothing jagged edges, the other advantage of the D9001LF is the saving in print buffer size when compared to a software solution. A 200x100 dpi or 200x200 dpi input raster image (requiring a smaller print buffer) is smoothed and modified to adapt to a 400x400 or 300x300 dpi engine saving overall memory cost.

The D9001LF can extend the life of laser printer toner cartridges through the use of

DESTINY's new TonrSavR feature. Demonstrating unmatched versatility, TonrSavR supports three toner saving modes: light, medium, and dark. Like EET, TonrSavR provides enhancement without any performance degradation.

The D9001LF can be customized for different print engines, and can be fine tuned to get the best looking output for each engine.

Since the D9001LF works with video image data, it is independent of the laser printer controller CPU and emulation software, supporting most LED and laser engines with little design-in effort.

PROCESSORS SUPPORTED:
i960® Processor Family

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