

## DURABLE GRAPHICS PRINTING MODULE

The durable graphics printing module is used to personalize long-lasting, high-resolution monochrome graphics — such as text, logos, bar codes and other card elements — on PVC cards using thermal transfer UV-curable ribbon technology.

- Durable 600 dpi printing provides abrasion and chemical protection without additional supplies
- Supports a variety of Open and TrueType fonts for unique card layouts
- Unicode characters available for broad language capability
- Multiple modules available to print on front and back side of a card in a single pass
- High durability graphics black, white, metallic gold and metallic silver supplies deliver excellent print results
- Large supply rolls minimize downtime
- Datacard® patented Intelligent Supplies Technology™ feature enhancements to improve card production efficiency and increase ribbon conservation to help minimize cost per card

Durable Graphics Printing Module Specifications	
<b>Module Functionality</b>	Prints durable monochrome thermal graphics text, bar codes and images on the card and then cures the printing with UV light
<b>Printing Technology</b>	Monochrome thermal mass transfer
<b>Resolution</b>	600 dpi
<b>Text Formats</b>	Scalable fonts, including TrueType and Open Type fonts for Microsoft Windows operating systems
<b>Bar Code Formats</b>	One-dimensional (1D): Code 39, Extended Code 39, HIBC, Codabar, NW7, EAN8, EAN13, JAN8, JAN13, UPCA, UPCE, Bookland, Interleaved 2 of 5, Code 128, EAN/UCC 128, Code 93, MSI Plessey  Two-dimensional (2D): QR, PDF417, Data Matrix
<b>Image Formats</b>	Certain versions or features of the following image formats may be supported: BMP, DCP, DPEG (Datacard® 9000 color image format), GIF 87, GIF 89, JPEG, JPEG 2000, PCX, PNG, TGA and TIF; for additional information contact your local sales representative
<b>Graphics Placement</b>	Near edge-to-edge - 0.1 in. (2.54 mm) from card edge, chip or cutout
<b>Intelligent Supplies Technology™</b>	Durable Graphics Printing Module requires the exclusive use of Datacard® Certified Supplies featuring patented Intelligent Supplies Technology™  Features include: <ul style="list-style-type: none"> <li>• Automatic supply recognition</li> <li>• Automated energy/temperature and module settings</li> <li>• Verification of proper color ribbon loaded for job</li> <li>• Enhanced ribbon conservation</li> </ul>
<b>Operator Supply Notifications</b>	<ul style="list-style-type: none"> <li>• Supply low</li> <li>• Supply out</li> <li>• Supply break</li> <li>• Supply not loaded or recognized</li> <li>• Supply load prompt</li> </ul>
<b>Ribbons Available</b>	High Durability Black, High Durability White, Metallic Gold and Metallic Silver
<b>Card Types Supported</b>	ISO/IEC 7810 ID-1 Size: 30 mil (±10%) Alternative card thicknesses can be made available upon request
<b>Card Materials Supported</b>	PVC or PVC laminate cards with gloss finish are supported; other materials such as PETG and PVC varnished cards or matte/satin finish cards must be tested for compatibility and durability

Durable Graphics Printing Module Supported Systems				
Available Systems	MX9100™ System	MX8100™ System	MX6100™ System	MX2100™ System
<b>Rated Speed</b>	Up to 4,000 CPH (depending on module configuration and number of ribbon colors)	Up to 3,000 CPH (depending on module configuration and number of ribbon colors)	Up to 1,800 CPH (regardless of the physical size of the image)	Up to 1,200 CPH (regardless of the physical size of the image)
<b>Allowed Quantity</b>	Up to 2 Durable Graphics Printing Modules per system any combination (Quad Head Front, Quad Head Back, Dual Head Front, Dual Head Back)		Up to 2 Durable Graphics Printing Modules per system any combination (Dual Head Front and Dual Head Back)	Up to 1 Durable Graphics Printing Modules per system (Dual Head Front/Back)
<b>Module Configurations</b>	<ul style="list-style-type: none"> <li>• Modules available in front or back configurations</li> <li>• Modules allow for two color ribbon choices within a module; two colors will affect throughput in Dual Head configuration</li> <li>• Can be configured with a collapsible supply core to ease removal of used supplies, kit includes 2 cores for the dual core and 4 cores for the quad core</li> </ul>		<ul style="list-style-type: none"> <li>• Modules available in Front and Back configurations</li> <li>• Can be configured with a collapsible supply core to ease removal of used supplies, kit includes 2 cores for the dual core</li> </ul>	<ul style="list-style-type: none"> <li>• Modules available in combined front and back configurations</li> <li>• Can be configured with a collapsible supply core to ease removal of used supplies, kit includes 2 cores for the dual core</li> </ul>
<b>System Considerations</b>	<ul style="list-style-type: none"> <li>• At least one card cleaning module is required when durable graphics printing module is installed and must precede the durable graphics printing module</li> <li>• If indent and durable graphics printing are both required for a card job, the Durable Graphics Printing Module must be configured before the Embossing Module</li> <li>• Graphics Module Gen2 module must be after Durable Graphics Printing Module</li> <li>• Requires Controller Software v6.11 or higher</li> <li>• Card Buffer/Flipper Module required for the MX9100 System</li> <li>• Single Card Buffer Module required for the MX8100 System</li> </ul>			
<b>Module Dimensions</b>	Quad Module: 50.1" H x 60.0" W x 27.0" D (127.3 cm x 152.4 cm x 68.6 cm) Dual Module: 50.1" H x 40.0" W x 27.0" D (127.3 cm x 101.6 cm x 68.6 cm)		50.1" H x 40.0" W x 27.0" D (127.3 cm x 101.6 cm x 68.6 cm)	
<b>Weight</b>	Quad Module: 715 lbs (324 kg) Dual Module: 503 lbs (228 kg)		503 lbs (228 kg)	
<b>Current Draw</b>	Quad Module: 4.21 amps at 230 VAC Dual Module: 2.89 amps at 230 VAC		2.89 amps at 230 VAC	
<b>Heat Output</b>	Quad Module: Average 13,317 BTUs per hour Dual Module: Average 12,399 BTUs per hour		Average 8,287 BTUs per hour	Average 6,231 BTUs per hour

Durable Graphics Printing Module Supplies Featuring patented Intelligent Supplies Technology™		
Item Number	Description	Yield/Roll (approx.)
513908-001	High durability UV-curable black graphics ribbon	16,280
513908-003	High durability UV-curable white graphics ribbon	14,570
513908-007	High durability UV-curable metallic silver front module graphics ribbon	14,570
513908-107	High durability UV-curable metallic silver rear module graphics ribbon	14,570
513908-011	High durability UV-curable metallic gold front module graphics ribbon	14,570
513908-111	High durability UV-curable metallic gold rear module graphics ribbon	14,570
509459-002	Replacement durable graphics printhead, 600 dpi	N/A

*Learn more about the unmatched selection of innovative card personalization capabilities of the MX Series at [entrustdatacard.com](http://entrustdatacard.com).*

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