OMNI™ RAIL

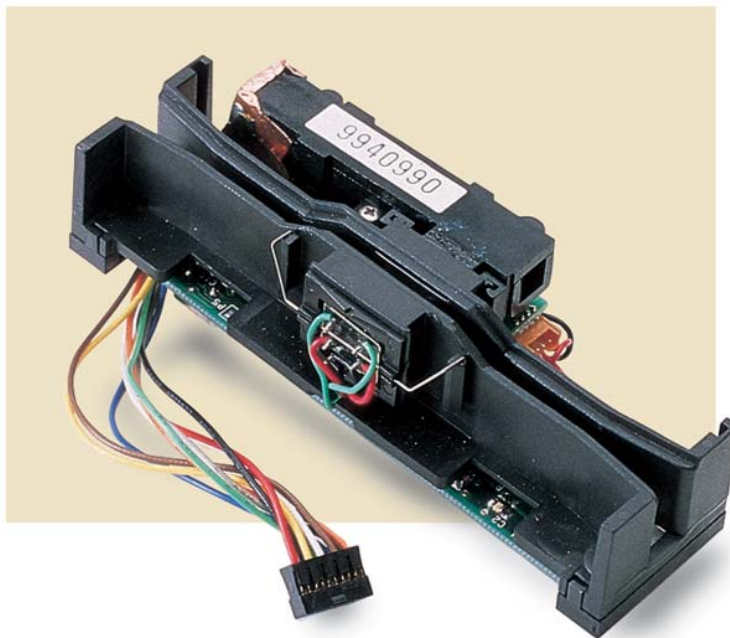## OEM Reader Module
For Magnetic Stripe and Bar Codes

Scans bar codes.

The Omni rail scans bar codes printed on paper, card stock, or plastic. An infrared option is available for high-security applications, where bar codes are overprinted to prevent duplication.

Reads magnetic stripes.

The Omni rail reads up to three tracks of magnetics with a single swipe in either direction. Its 99mm-length slot makes it easy to use, with less than one error in 100,000 bits on ISO-compliant media. In combination, the same unit can read both bar codes and magnetic stripes.

Stands up to heavy use.

The Omni rail is designed for demanding applications. Its stainless steel wearplate ensures long life and accurate registration. The magnetic head is spring-loaded to accommodate bowed or warped cards, and handles media from .010 to .05 inches thick.

Mounts easily.

Two holes are provided for easy mounting, and threaded inserts are available. The accompanying TTL magnetic electronics attach to the underside of the unit, while the bar code electronics are mounted directly on the optics assembly. The Omni is molded of rugged ABS plastic, and is warranted for a minimum of 1,000,000 media passes.

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WCR 3200 Omni Rail Module Specifications

Electrical

Bar Code:	Power +5 VDC +/-10% (50mV ripple maximum).
	Ground 0 VDC (GND).
Magnetic:	Power +5 VDC +/-10% (50mV ripple maximum).
	Ground 0 VDC (GND).
	Chassis Ground connected to GND and magnetic head case.
Operating Current:	About 65mA for combination magnetic stripe (three tracks) and bar code.
	About 35mA for magnetic stripe (three tracks) only. About 60mA for bar code only.

Environmental

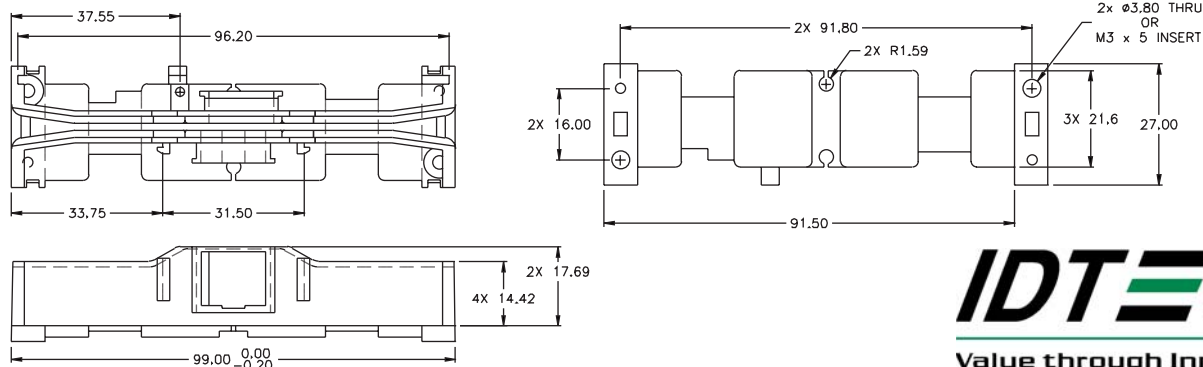|	
Operating Temperature:	32° F to 131° F (0° C to 55° C).
Extended Temp. Option:	-31° F to 140° F (-35° C to 60° C) without ice build-up on magnetic head.
	(Minimum quantities apply; extended temperature option not available with bar code feature.)
Storage Temperature:	-22° F to 158° F (-30° C to 70° C) non-condensing.
Humidity:	Maximum 95% non-condensing.

Reliability

Magnetic Head Life:	1,000,000 passes minimum.
Rail Life:	1,000,000 passes minimum.
Magnetic Read Rate:	Less than one error in 100,000 bits on cards conforming to ISO 7811 -1 thru 5 (not induced by operator error).

Mechanical

Bar Code Source Light:	Visible red 660 nm or Infrared 930 nm.
Minimum Bar Code PCS:	60%.
Bar Code Centerline:	.49 inches (12.50mm) from bottom of slot to center of reading window.
Bar Code Resolution:	.006 (6 mil) minimum.
Magnetic Stripe Formats:	ISO 7811, Aiken Code (F2F).
Swipe Speed:	Bar Code: 5 to 65 inches per second, bi-directional.*
	Magnetic Stripe: 3 to 60 inches per second, bi-directional (normal density).
Media Thickness:	Bar Code media: .005 to .050 inches.
	Magnetic Stripe media: .015 to .050 inches.
Slot Width:	.055 (1.37mm).
Dimensions:	Length: 3.90 inches (99mm). Width: 1.06 inches (27mm). Height: 0.83 inches (21mm).
Footprint:	

CE

*Media velocity can vary depending on bar code density and quality.

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