

## RFID TECHNOLOGY - A BRIEF INTRODUCTION

Since the development of UHF RFID standards in the early 2000's, the technology has steadily grown in many industries. The introduction of UHF technology brought longer read ranges than could previously attained. Over the years, the performance has advanced and costs reduced such as to gain broad industry adoption. Some industry examples include tracking garments in retail, medical equipment in healthcare, containers in logistics, pipes in energy, produce in farming, and much more.

Standard pressure-sensitive barcode labels are now available with passive RFID inlays embedded to form a "Smart Label". The RFID inlay incorporates an RFID chip (or IC) and an antenna. The inlays are available in many forms to work with different types of materials and applications. The chip itself is also available in many versions but generally stores a minimum of 96bits of data, enough to create a unique electronic ID for the item to which it is attached.

Traditional barcode scanners require line-of-site to read the barcode label, and the barcode data just reflects a type of item. The benefit of an RFID label is that it can be 'wanded' very quickly, at high volume, without direct view and at some distance from the item. Additionally each item is uniquely serialized. And of course, you can still have the barcode and human readable information.

Printronix Auto ID offers a variety of labels that incorporate the latest RFID inlays to support the most common applications. We are also able to provide custom RFID labels for specific applications. In conjunction with our broad suite of thermal ribbon offerings, Printronix Auto ID RFID labels are designed to work optimally with Printronix Auto ID RFID printer-encoders to assure the most reliable RFID printer/encode solution.

## PERFORMANCE GUARANTEE

Printronix Auto ID offers a variety of RFID labels that incorporate the latest RFID inlays to support the most common applications. In conjunction with our broad suite of thermal ribbon offerings, Printronix Auto ID RFID labels are designed to work optimally with Printronix Auto ID RFID printer-encoders to assure the highest yield and most reliable RFID printer/encode solution. Genuine Printronix Auto ID RFID labels are guaranteed to perform to your complete satisfaction.

## RFID PRINTER COMPATIBILITY

SQUIGGLE INLAY	STANDARD PITCH		SHORT PITCH		ON PITCH
	SL4M	SL5R	SL4M	T6000	T6000
ALN9640	✓	✓	✓	✓	✓
ALN9740	✓	✓	✓	✓	✓
AD-227	✓	✓	✓	✓	✓

## RFID LABELS – MEDIA 105 PREMIUM THERMAL TRANSFER STOCK

3.0" inside diameter core / Permanent adhesive / UHF

INLAY	LABEL WIDTH	x	LABEL LENGTH	PITCH	LABELS/ ROLL	ROLLS/ CTN
ALN9640, ALN9740, AD-227 & AD-229	4.00	x	1.00	Standard & Short	1000	12
ALN9640, ALN9740, AD-227 & AD-229	4.00	x	2.00	Standard & Short	1000	1
ALN9640, ALN9740, AD-227 & AD-229	4.00	x	4.00	Standard & Short	1000	12
ALN9640, ALN9740, AD-227 & AD-229	4.00	x	6.00	Standard & Short	500	1