



IDentity ZiP Transponder

Features:

- **Battery-Less Operation**
No batteries required, transponder is powered by the antenna.
- **Operating Frequency**
Reader selectable from 912.5 - 920.5 MHz.
- **Attachment**
Peelable label allows for ease of attachment.
- **External Mount Transponder**
SIRIT's License Plate Transponder provides an alternative solution to window-mounted transponders.



Function

The **IDentity ZiP** transponder is a small Radio Frequency (RF) device designed for Automatic Vehicle Identification (AVI). Each transponder contains a factory programmed, unique 64-bit identification code.

The **IDentity ZiP** transponder utilizes energy from the antenna for power, eliminating the requirement for a battery.

How it works

The transponder uses radio frequency (RF) backscatter modulation technology to respond to information from an **IDentity ZiP** reader by reflecting and modulating the reader's RF signal. As a vehicle approaches the read zone, the presence of a RF field "activates" the transponder. Once activated, the transponder returns a preprogrammed code to the reader system through the antenna.

The **IDentity ZiP** transponder's wireless link uses comprehensive error detection methods to ensure accuracy under the most adverse environmental conditions. Error detection and correction also ensures information is transferred accurately between the transponder and reader. The read range can be configured by the **IDentity ZiP** reader to a typical maximum working distance of 18 feet.

Authorized SIRIT Dealer



900 MHz Transponder - IDentity ZiP

Automatic Vehicle Identification (AVI)

Communications / Memory / Electrical specifications

Operating Frequency:	912.5 MHz to 920.5 MHz (selectable by reader)
Transponder I.D.:	64 bit preprogrammed (translated by the reader into a 32-bit ID number)
Working Range:	Set by reader and antenna configuration, up to 5.48m (18 ft)
Data Rate:	80 Kbps

Physical specifications

Size (WxHxD):	ZiP - 15.24 x 1.95 cm (6.0 x 0.75") License Plate Tag - 20.9 x 4.3 x 2.8 cm (8.25 x 1.68 x 1.1")
Weight:	ZiP - 5 g (0.176 ounces) License Plate Tag - 105 g (3.7 ounces)
Storage Temperature:	-40°C to +100°C (-40°F to 212°F)
Operating Temperature:	-20°C to +85°C (-4°F to 185°F)
Humidity:	85% non-condensing @ 85°C
Power Source::	No battery required, RF beam powered by reader / antenna
Case Material:	License Plate Transponder: Welded polycarbonate weather resistant plastic.

Ordering information

Model Numbers:	Options:
IDZIP-TAG-01 Transponder	IDZIP-MEM (CompactFlash™ card)
IDZIP-TAG-LP (license plate mount)	



SIRIT - Head Office, Canada

33 City Centre Drive,
Suite 250, Mississauga, Ontario,
Canada
L5B 2N5
Tel: (905) 949-4404
Fax: (905) 949-6320
Toll Free: (800) 498-8760

SIRIT - US

1321 Valwood Parkway,
Suite 620, Carrollton, Texas,
United States
75006
Tel: (972) 243-7208
Fax: (972) 243-8034
Toll Free: (877) 492-0101

email: mail@siritcorp.com

www.sirit.com

SIRIT -UK

Loughborough Technology Center,
Epinal Way, Loughborough,
United Kingdom
LE11 3GE
Tel: 44 1509 213 141
Fax: 44 1509 213 191