

RFID Solutions & Casino Inventory System (CIS)



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RFID Currency Features

GPI has over 90 years gaming currency experience and is the gaming industry's leading supplier of chips, plaques, jetons and RFID currency. Serving licensed casinos worldwide, GPI is at the forefront of research and development of RFID technology and solutions. Our RFID currency and Casino Inventory System offer a high level of currency security with complete and accurate information about your currency inventory and transactions.

RFID Gaming Currency

Each piece of currency has an RFID tag securely encrypted with the currency's value and other user defined, valuable data and is instantly identified and validated when it comes in contact with an RFID antenna and reader. RFID enabled currency provides secure cage and table transactions and one of the highest levels of currency security against counterfeits.

Why Choose GPI RFID Chips

GPI RFID chips have a greater transmitting range and the tag and antenna are embedded in a proprietary and secure casing. By embedding each microchip within an enclosed disk, our RFID chips:

- Offer a high level of shock resistance
- Are protected from external vibrations and centrifugal forces that can impact the tag's readability
- Cannot be removed without being destroyed

Non-GPI RFID chips, generally have the tags installed underneath the decal, making them vulnerable to:

- Electronic contact rupture if the decal is peeled back
- RFID tag destruction / damage when chips are "banged" together or hit with another chip
- Deactivation when scraped with a fingernail

Currency Validation

Currency information is encrypted in both the RFID chip tag and in the Casino Inventory System (CIS) database. When RFID enabled currency is placed on an antenna, CIS validates the currency by comparing the information stored in the CIS database with the coded information on the currency RFID tags.

Attempts to introduce invalid chips or attempts to alter the stored database information will result in the information not matching, thus resulting in an invalid currency event.

Inventory Tracking

RFID currency used in conjunction with CIS, gives users a secure and reliable means to track and record the movement of currency throughout the casino. In addition, RFID and CIS can streamline a multitude of manual operations at the table and cage.

SMART RFID

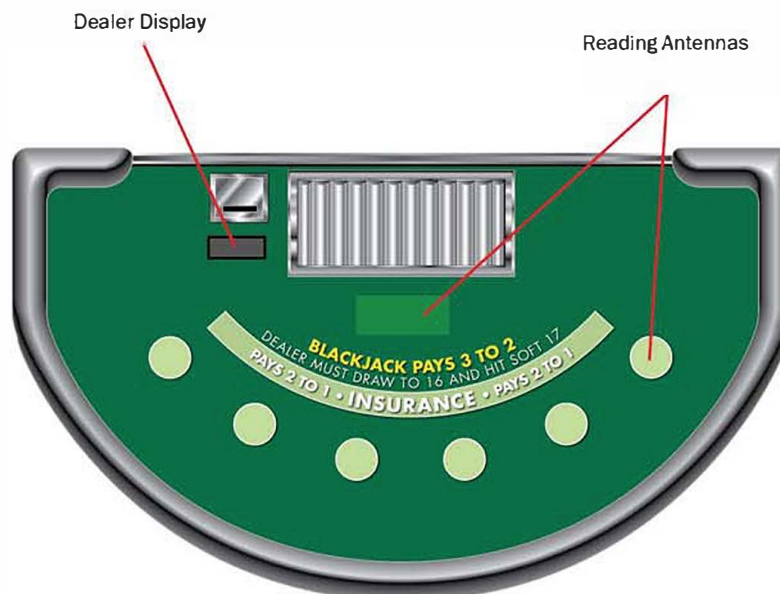
GPI offers various types of RFID including the two most widely used technologies in casino currency, PJM and SMART. Both are 13.56Mhz high-frequency and offer similar RFID reading functions, currency validation and can automate and streamline a variety of manual operations.

What is SMART?

GPI has developed its own exclusive high frequency SMART RFID built on the HF ISO 18000-3M3 RFID standard, which is the most current, effective, and secure standard available. Our SMART RFID, offers a high performance, cost-effective and sustainable solution. It provides superior product flexibility for customers who prefer added collaborative input into the design and development of their custom, built-to-order solutions.

Key Features & Benefits

- Reads 400 chips per second
- Readers are designed with 16 ports to maximize install flexibility and peak read performance
- Compact reader size is easier to install in crowded locations
- Reader can be used with a wide range of antenna sizes designed for table, cage and fill-bank use
- SMART readers generate less heat, improves reliability and lifespan
- Uses high quality QMA antenna connectors that are more stable and improve reliability
- Works with the Chip Inventory System software to help guarantee authentication quality and speed
- FCC and CE approved



SMART Readers & Antennas

GPI's new high frequency **SMART** RFID readers and antennas are designed to fully utilize the advantages of the ISO18000-3mode3 standard such as fast anti-collision and 433 kHz downlink data rates.

GPI's exclusive **SMART** 16 readers demonstrate outstanding performance with tag read rates of up to 400 tags per second. The read rate is consistent even with heavy chip loads as high as 600 tags per antenna.

Requirements for higher quantity chip reads on one antenna led to the primary goal of the **SMART** 16: to read huge amounts of RFID chip tags within the shortest time possible.

The high data rates and the possibility to combine several antennas to one detection system enable the full flexibility in the arrangement of the antennas to perform, for example, omni-directional tag reading or instant movement detection.

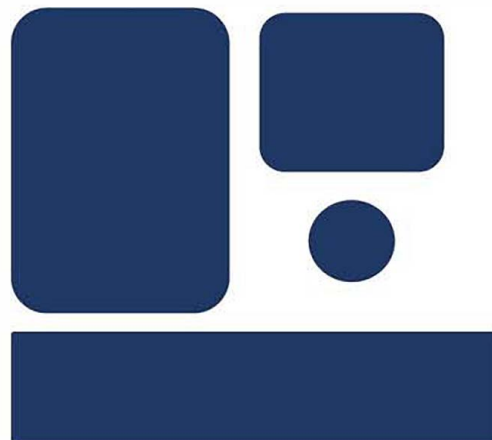
Key Features & Benefits

- Readers can operate up to 16 individual antennas
- Read up to 400 chips per second
- Supports multi-axis antennas and enables instant movement detection
- GPI guarantees a minimum read of 20 stacked chips
- Variable connectivity via Ethernet, USB or RS232
- 8-port decoupled digital I/O interface
- Eco-friendly with reduced power consumption as compared to earlier models
- Antennas available in various standard shapes and sizes to accommodate placement in gaming tables, the cage, chip banks and the vault

SMART 16 Reader



SMART Antennas are available in various sizes and shapes (not all shown), shielded and un-shielded, and available to read in 1D, 2D or 3D



RFID Solutions at a glance

Product & Solution Technologies*	SMART	PJM
BG Plaques & Jetons	■	■
BG Chips	■	■
Bud Jones Chips	■	■
Paulson Chips	■	■
Casino Inventory System	■	■
Cage Readers	■	■
Chip Bank Readers	■	■
Single Level Chip Trays	■	■
Dual Level Chip Trays	■	■
Plaque Boxes	■	■
All in One Reader	■	■
Table Top Authenticator	■	■
Transfers	■	■
Chip Rolling Solution	■	■
Tray Inventory Module	■	■
Chip Detection Solution	■	■
SMART Check Point	■	
3rd Party Application Connectivity	■	■
Custom Solutions	■	

*High Frequency: 13.56 MHz



THE AMERICAS
+1.800.728.5766
sales-usa@gpigaming.com

ASIA / PACIFIC RIM
+853.8299.7500
sales-asia@gpigaming.com

EUROPE / AFRICA
+33.380.26.26.26
sales-sas@gpigaming.com

GENERAL INFO
info@gpigaming.com