

Wickets®

Cashless Payment System Stored Value Gaming Applications

Wicket Features:

- Account, Bonus, and Loyalty Balances
- Site-ID For Property Specific Acceptance
- Optional User PIN For Access Protection
- Encrypted Password Protected Data
- Key Tag Or Credit Card Shape Factors
- Tough Teslin Inner Layer For Long Life



WR99 Wicket Reader Features:

- Multi-Color Illumination For Status Indication
- Secure Serial Protocol With Host Controller
- Manages Low Level Read / Write Transactions
- Small Footprint: .75" Mounting Hole Diameter
- Antenna Not Affected By Metal Panel Mount



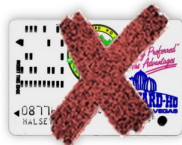
Wicket technology incorporates ISO standard 15693 RFID (radio frequency identification) data tags laminated into the center layer of a tough Teslin based card or key tag. The Reader's emitted RF field is used to both power and communicate with the chip/antenna of the Wicket. Stored Value Wickets utilize memory on the RFID data tag to actually store the value of a player's account balance, bonus balance, and loyalty point balance. No networks or servers are necessary because all of the information required is stored right on the Wicket itself.

With Stored Value Wickets, you can send out promotional Wickets using the bonus balance to provide free play value that cannot be redeemed for cash without having first been played, and you can offer a loyalty program using the loyalty balance on the Wicket. Loyalty points increase by one for every dollar/euro/etc. purchased.

Stored Value Wickets leave no security aspect unattended. First, Wickets can not be counterfeited or re-written by any other RFID reader because Wickets incorporate an invisible 32 bit encrypted password, a property-specific Site-ID, and tag-specific data ciphers, all of which must be correct before any credit is given by a Wicket Reader from a presented RFID tag. Second, simply having a Wicket Reader does not enable a trickster to write data to a Stored Value Wicket as the controller must first be validated by a challenge/response sequence.

Stored Value Wicket Reader Model-WR99 is designed for integration either directly into OEM game terminals, or indirectly through integration into popular player tracking interface modules supporting advanced funds transfer protocols for game terminals. See reverse side of this document for additional technical information.

Nothing to refill, nothing to jam, nothing to wear out, nothing to clean, nothing to reconcile!



IDX, Inc. 400 West Cedar, El Dorado, Arkansas 71730

Phone: 800-643-1109 FAX: 870-862-3472 Email: sales@idxinc.com Web: www.wickets.us

WR99 Wicket Reader

Cashless Stored Value Gaming Applications

Rev 8/10/2007

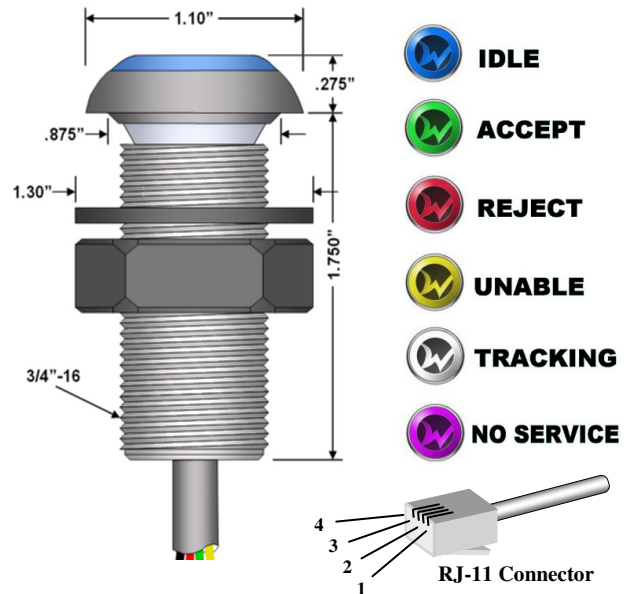


Features:

- Multi-Color Illumination For Status Indication
- Manages Low Level Read / Write Transactions
- Secure Serial Protocol With Host Controller
- Utilizes ISO 15693 Password Protected Tags
- Small Footprint: .75" Mounting Hole Diameter
- Antenna Not Affected By Metal Panel Mount

General

The WR99 is intended for stored value gaming applications where all account information is securely and redundantly stored on an ISO 15693 RFID (radio frequency identification) tag called a Wicket. Stored value technology eliminates the need for networks and servers while still providing the utility of an account balance, a bonus balance, a loyalty point balance, and an optional customer PIN. The WR99 Wicket Reader utilizes its emitted RF field to both power and communicate with the Wicket's chip/antenna.



Security

The WR99 incorporates 4 levels of security to authenticate Stored Value Wickets and their data. First, Wickets utilize special security tags having an invisible encrypted 32-bit password protection, unique to each Wicket, required for data access. Second, data stored in each block is authenticated by a proprietary cipher algorithm. Third, each Wicket holds a property specific Site-ID which must match that configured in the WR99 to be accepted. Fourth, the host controller must first be validated by a challenge/response sequence before the WR99 will write anything to a Wicket.

Protocol

The WR99 has a polling based protocol wherein the WR99 status is always returned. If a Wicket has just been freshly read then its UserID, and balance information are also appended to the poll response. The protocol supports commands for debiting and crediting the various balances, for controlling the LED color and blink properties, and determining the version of the reader firmware. Status flags are used to indicate success or failure of write operations. Management of the account and bonus balances (real money versus non-refundable free play credits) is handled automatically by the WR99 such that a debit command will first debit what it can from the account balance, and then debit the bonus balance. For security reasons more detailed information regarding the WR99 protocol will only be shared with OEMs executing a suitable NDA.

Wicket Reader Model WR99 Specifications	
Supply operating voltage	+5VDC to +7.5VDC
Supply current - no Wicket	70mA typical
Supply current - w/Wicket	170mA typical
Sensing range to Wicket	0.5" (12.5mm) typical
Operating temperature range	-20 °C to +50 °C
Enclosure materials	Polycarbonate
Fastener materials	Nylon
COM parameters	9600, N, 8, 2
TxD output high, output low, (Note 1)	+5V PNP source 10K sink to 0V
RxD input threshold, input impedance, (Note 1)	1.2V 10K sink to 0V
Wicket Reader connector:	RJ-11 (telephone style)
<ul style="list-style-type: none"> ▪ Pin 1, Yellow ▪ Pin 2, Green ▪ Pin 3, Red ▪ Pin 4, Black 	<ul style="list-style-type: none"> ▪ RxD (receive) ▪ +V Supply ▪ TxD (transmit) ▪ Supply Common
Note 1: TxD and RxD are RS-232 compatible with all known common computer COM ports and USB converter dongles.	



IDX, Inc. 400 West Cedar, El Dorado, Arkansas 71730

Phone: 800-643-1109 FAX: 870-862-3472 Email: sales@idxinc.com Web: www.wickets.us