

Wickets®

Cashless Payment System Account Based Gaming Applications

Wicket Features:

- RFID Standard ISO 15693 Compliant
- Over 280 Trillion Unique User IDs
- Wicket Authentication Data Encrypted
- Key Tag Or Credit Card Shape Factors
- Tough Teslin Inner Layer For Long Life

WR77 Wicket Reader Features:

- Rejects RFID Tags Failing Authentication Test
- Simple Polled or Non-Polled Serial Protocol
- Multi-Color Illumination For Status Indication
- Small Footprint: .75" Mounting Hole Diameter
- Antenna Not Affected By Metal Panel Mount



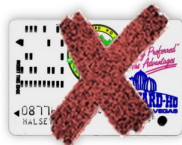
Wicket technology incorporates ISO standard 15693 RFID (radio frequency identification) data tags laminated into the center layer of a tough Teslin based card or key tag. The Reader's emitted RF field is used to both power and communicate with the chip/antenna of the Wicket.

Wickets for Account Based Gaming contain encrypted validation information that allows WR77 Wicket Reader to authenticate it, read its User ID, and read an optional player-selected preferred denomination amount. The User ID and denomination are communicated by the WR77 to the OEM game terminal to identify the player. The game terminal communicates with a network-connected server holding a database for player accounts that may include an account balance, a bonus balance, a loyalty points balance, a user PIN, player preferences, or other information that may be useful to access at a game terminal. The Wicket User ID allows access to data associated with the Wicket holder to enable wagering, game configuration, or other functions at the game terminal. To provide a visual transaction status indication to the player, the game terminal sends commands to the WR77 to control its color and blink properties.

Nothing to refill, nothing to jam, nothing to wear out, nothing to clean, nothing to reconcile is a good thing!

Wicket Reader Model-WR77 for Account Based Gaming is designed for integration indirectly into OEM game terminals via popular player tracking interface modules supporting advanced funds transfer protocols for game terminals and a network server database. See reverse side of this document for additional technical information.

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WR77 Wicket Reader

For Cashless Account Based Applications

Rev 8/10/2007

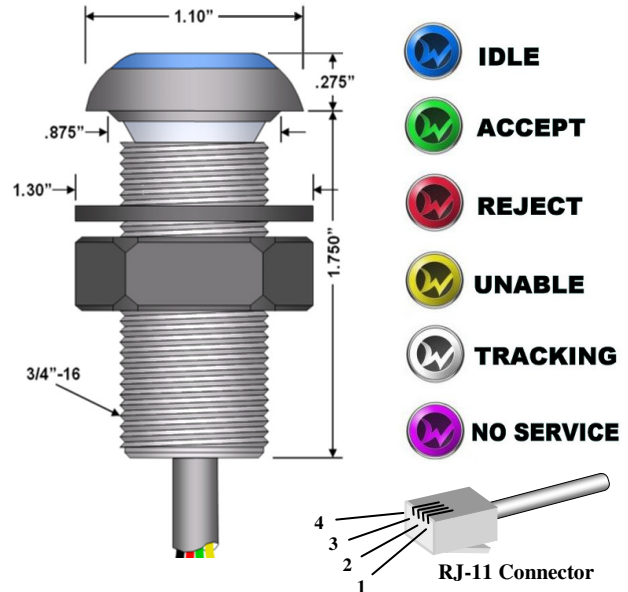


Features:

- Rejects RFID Tags Failing Authentication Test
- Simple Polled or Non-Polled Serial Protocol
- Multi-Color Illumination For Status Indication
- Reads UserID and Reads/Writes Data Blocks
- Small Footprint: .75" Mounting Hole Diameter
- Antenna Not Affected By Metal Panel Mount

General

The WR77 Wicket Reader is an RFID (radio frequency identification) reader for use with IDX Account Based Wickets, which incorporate 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 tag. The WR77 reads the Wicket's unique User ID and communicates it to the OEM's equipment for it to access the user's account information stored elsewhere in a database.



Security

The WR77 reads encrypted data from the RFID tag to authenticate it as an IDX Account Based Wicket. If the read data fails to authenticate the tag, the WR77 will indicate rejection by blinking red for two seconds and will not report the presence of the RFID tag. The OEM is responsible for validation of any data stored on the Wicket and for the security of the database holding user account information.

Protocol

The WR77 has two operating modes: 1) a polling based protocol wherein the WR77 status is always returned, and if a Wicket has just been freshly read then its UserID, Wicket Type, and Sub-Type are also appended to the poll response, and 2) an auto-response protocol wherein the UserID, Wicket Type, and Sub-Type of a freshly read Wicket are immediately reported without polling. Wicket Types include gaming, non-gaming commerce, and employee ID.

The Type and Sub-Type may be used by a local controller to determine if the Wicket applies at the current location. For, example, a maintenance employee ID can be rejected by a arcade game's controller without consulting a remote database as there would be no game play credits associated with a maintenance employees account. The full protocol specification is freely available on the Web, or may be obtained by request to IDX sales.

Wicket Reader Model WR77 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.	



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