



## **Random Number Generator Certificate**

**Operator:** PowerVegas.com

**URLs:** [www.powervegas.com](http://www.powervegas.com) and [www.powerpoker.com](http://www.powerpoker.com)

This is to certify that iTech Labs has evaluated the Random Number Generator (RNG) used for the games in the CTXM Gaming System and found that the RNG complies with the relevant standards\*.

The CTXM games use a widely recognized algorithm to generate the random numbers. The numbers generated by this RNG have passed Marsaglia's "diehard" tests for statistical randomness.

iTech Labs has evaluated the shuffling of the cards for all card games. Chi-squared tests were applied to over 8 million shuffled decks in 1 deck, 4 decks, 6 decks and 8 decks formats. The tests were applied to suits 1-4, ranks 1-13 and cards 1-52. iTech Labs has found that the card sequences are unpredictable and non-repeatable.

iTech labs has applied Chi-squared tests to scaled numbers for all non-cards games (roulette games, slot games, dice games, scratch games and miscellaneous ranges for the XG games). These tests have indicated statistical randomness.

Chi-squared tests were conducted for the following games:

| <b>Game type</b> | <b>Game name</b>    |
|------------------|---------------------|
| Baccarat         | Baccarat            |
| Blackjack        | Blackjack           |
| Blackjack        | Blackjack Surrender |
| Card game        | Card Wars           |
| Classic Slots    | Gold in Bars        |
| Classic Slots    | Hot 7's             |
| Classic slots    | Mexican Slots       |
| Classic Slots    | Pirate Slots        |
| Classic Slots    | Fruit Salad Jackpot |
| Craps            | Craps               |
| Keno             | Keno                |
| Poker            | Caribbean Poker     |
| Poker            | Casino Hold 'Em     |
| Poker            | Let Them Ride       |
| Poker            | Pai Gow Poker       |
| Poker            | Poker Three         |
| Roulette         | American Roulette   |
| Roulette         | European Roulette   |
| Roulette         | Roulette PRO        |
| Sic Bo           | Sic Bo              |
| Scratch Game     | Bingo Scratch       |
| Video Poker      | Coliseum Poker      |
| Video Poker      | Deuces Wild         |
| Video Poker      | Face the Ace        |
| Video Poker      | Five Aces           |

|                            |                         |
|----------------------------|-------------------------|
| Video Poker                | Jacks or Better         |
| Video Poker                | Joker Wild              |
| Video Poker                | Shockwave Poker         |
| Video Poker                | 4-Line Coliseum Poker   |
| Video Poker                | 4-Line Deuces Wild      |
| Video Poker                | 4-Line Face the Ace     |
| Video Poker                | 4-Line Jacks or Better  |
| Video Poker                | 4-Line Joker Wild       |
| Video Poker                | 10-Line Coliseum Poker  |
| Video Poker                | 10-Line Deuces Wild     |
| Video Poker                | 10-Line Face the Ace    |
| Video Poker                | 10-Line Jacks or Better |
| Video Poker                | 10-Line Joker Wild      |
| Video Poker                | 25-Line Coliseum Poker  |
| Video Poker                | 25-Line Deuces Wild     |
| Video Poker                | 25-Line Face the Ace    |
| Video Poker                | 25-Line Jacks or Better |
| Video Poker                | 25-Line Joker Wild      |
| Video Poker                | 50-Line Coliseum Poker  |
| Video Poker                | 50-Line Deuces Wild     |
| Video Poker                | 50-Line Face the Ace    |
| Video Poker                | 50-Line Jacks or Better |
| Video Poker                | 50-Line Joker Wild      |
| Video slots                | Archipelago             |
| Video slots                | Aztec Slots             |
| Video slots                | China MegaWild          |
| Video slots                | Cleopatra Treasure      |
| Video slots                | Freaky Fruits           |
| Video slots                | Mystic Slots            |
| Video slots                | Olympic Slots           |
| Video slots                | Party Night             |
| Video slots                | Spin the World          |
| Video slots                | Totem Quest             |
| Video slots                | Atlantis Dive           |
| Video slots                | Freaky Wild West        |
| Video slots                | Freaky Gym              |
| Video slots                | Summer Dream            |
| XG Games                   | Black and White         |
| XG Games                   | Derby                   |
| XG Games                   | Greyhounds Park         |
| XG Games                   | Hockey Shot             |
| XG Games                   | Instant Lotto           |
| XG Games                   | Penalty Shootout        |
| XG Games                   | Rollup                  |
| XG Games                   | Soccer Shot             |
| XG Games                   | Wheel of Fortune        |
| XG Games                   | Bonus Cards             |
| XG Games                   | Jackpot7                |
| Mini Games / Classic Slots | Pirate Slots            |
| Mini Games / Classic Slots | Mexican Slots           |
| Mini Games / Blackjack     | Blackjack               |
| Mini Games / Poker         | Casino Hold'em          |
| Mini Games / Roulette      | European Roulette       |

|                           |                 |
|---------------------------|-----------------|
| Mini Games / Scratch Game | Bingo Scratch   |
| Mini Games / Video Poker  | Deuces Wild     |
| Mini Games / Video Poker  | Jacks or Better |

The tests conducted for the above games were limited to correct use of the RNG.

The certified code for the RNG has been fingerprinted.

Click here to view the [Original](#) iTech Labs Certificate.

**Signed:**



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\* The RNG was tested according to Alderney Gambling Control Commission (AGCC) and Isle of Man requirements. The software provider or operator of the gaming site may not necessarily be licensed in the gaming regulatory jurisdiction whose technical standards have been applied in the testing process. Before making enquiries with the gaming commission, check whether the gaming commission's logo is present on the gaming site's home page or undertake independent enquiries with the operator of the website.



Disclaimer.

While it is not possible to test all possible scenarios in a laboratory environment, iTech Labs has conducted a level of testing appropriate for a component test of this type.