Data Sheet – ComScire® QNG Model CS128M

Features

- Designed for compliance with NIST SP 800-90C and BSI AIS 20/31 Class PTG.3 Standards
- Cryptographic post-processing: AES cipher with security strength of 256-bits (AES-256)
- Continuous hardware runtime testing with automatic halt
- Raw data stream and internal statistics available
- Independent power regulation for generator circuitry
- Encrypted firmware with tamper-protection
- USB generator-specific data write-protected
- Includes drivers, interface and testing software

Applications

- For applications requiring the highest security and fastest generation rate of guaranteed unpredictable true random numbers
- Military/Space Communication Systems
- Electronic Financial Transactions
- Cryptography
- Data Security
- Research
- Games of Chance

Specifications

- 128 Megabit per second ± 0.1%
- Statistical defects < 10^-100
- Estimated total entropy: $(1 - \varepsilon) \text{ bits per bit, } \varepsilon < 10^{-200}$
- Shielded 1/16-inch aluminum enclosure
- USB 2.0 High-Speed interface
- Bus Powered: 325mA max at 5V from USB connection. High current USB port or powered hub recommended
- Non-condensing humidity
- Operating temperature: 0-50 Deg. C
- Dimensions (L x W x H): 80 x 54 x 35 mm

System Requirements

- 32/64-bit Windows 7/2012/8/10/2016
- Linux
- USB 2.0 High-Speed host/hub

Notes:

- Minimum OS required is Windows 7 or Linux 2.6

White Paper

- The ComScire® CryptoStrong™ Random Number Generator

For more information on any of our products or services please visit us on the Web at: https://comscire.com

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