

Structured Product Details

Name
Buffered Accelerated Market
Participation Securities linked to
Russell 2000 Index

 Issue Size
 \$539,000

 Issue Price
 \$1,000

 Term
 18 Months

 Annualized Coupon
 0.00%

Pricing Date December 22, 2009
Issue Date December 28, 2009
Valuation Date June 23, 2011
Maturity Date June 28, 2011

 Issuer
 HSBC

 CDS Rate
 72.82 bps

 Swap Rate
 1.12%

Reference Asset the Russell 2000 Index

Initial Level 623.6 Dividend Rate 1.37% Implied Volatility 27.49% Delta<sup>1</sup> 0.54

Fair Price at Issue \$960.88 Realized Return \$13.25%

CUSIP 4042K0H32 SEC Link www.sec.gov/Archives/edgar/ data/83246/000114420499066321/ v169911 42482.hm

## Related Research

#### Research Papers:

www.slcg.com/research.php

- "Are Structured Products Suitable for Retail Investors?" December 2006.
- "Structured Products in the Aftermath of Lehman Brothers," November 2009.
- "What TiVo and JP Morgan Teach Us about Reverse Convertibles," June 2010.

Buffered Accelerated Market Participation Securities linked to Russell

# Description

2000 Index

Report Prepared On: 08/02/13

HSBC issued \$539,000 of Buffered Accelerated Market Participation Securities linked to Russell 2000 Index on December 28, 2009 at \$1,000 per note.

These notes are HSBC-branded Buffered PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on the final level of the Russell 2000 Index.

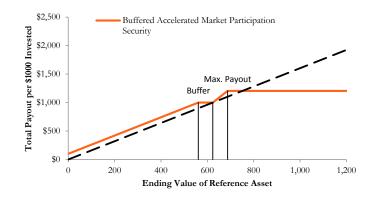
If on June 23, 2011 the Russell 2000 Index level is higher than 623.6, but lower than 687.52, the notes pay a return equal to the percentage increase in the Russell 2000 Index multiplied by 2.0, up to a cap of 20.50%. If on June 23, 2011 the refe is below 623.6 but not below 561.24, investors receive \$1,000 face value per note. If the Russell 2000 Index level on June 23, 2011 is lower than 561.24, investors receive face value per note reduced by the amount the reference asset is below 561.24 as a percent of the initial level, 623.6.

## **Valuation**

This product can be valued as a combination of a note from HSBC, one short out-of-themoney put option, two long at-the-money call options, and two short out-of-the-money call options. For reasonable valuation inputs this note was worth \$960.88 when it was issued on December 28, 2009 because the value of the options investors gave HSBC plus the interest investors would have received on HSBC's straight debt was worth \$39.12 more than the options investors received from HSBC.

There is no active secondary market for most structured products. Structured products, including this note, therefore are much less liquid than simple stocks, bonds, notes and mutual funds. Investors are likely to receive less than the structured product's estimated market value if they try to sell the structured product prior to maturity. Our valuations do not incorporate this relative lack of liquidity and therefore should be considered an upper bound on the value of the structured product.

### Payoff Curve at Maturity



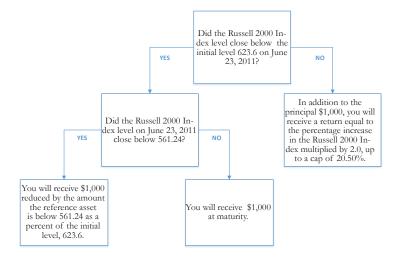
The payoff diagram shows the final payoff of this note given the Russell 2000 Index level (horizontal axis). For comparison, the dashed line shows the payoff if you invested in the Russell 2000 Index directly.

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### Principal Payback Table

The Russell 2000 Index	Note Payoff
0.00	\$100.00
62.36	\$200.00
124.72	\$300.00
187.08	\$400.00
249.44	\$500.00
311.80	\$600.00
374.16	\$700.00
436.52	\$800.00
498.88	\$900.00
561.24	\$1,000.00
623.60	\$1,000.00
685.96	\$1,200.00
748.32	\$1,205.00
810.68	\$1,205.00
873.04	\$1,205.00
935.40	\$1,205.00

### Maturity Payoff Diagram

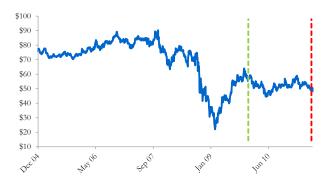


The contingent payoffs of this Buffered Accelerated Market Participation Security.

# **Analysis**

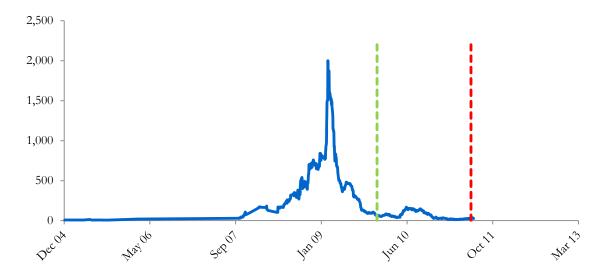
This Buffered Accelerated Market Participation Security pays investors the increase in the Russell 2000 Index multiplied by 2.0 capped at 20.50%, but if the Russell 2000 Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the Russell 2000 Index. In addition, investors bear the credit risk of HSBC. Investors purchasing this Buffered Accelerated Market Participation Security effectively sell at-themoney put and out-of-the-money call options to HSBC, buy at-the-money call options, and a zero-coupon note from HSBC. This Buffered Accelerated Market Participation Security is fairly priced if and only if the market value of the options investors received from HSBC equals the market value of the options investors gave HSBC plus the interest investors would have received on HSBC's straight debt.

# **HSBC's Stock Price**



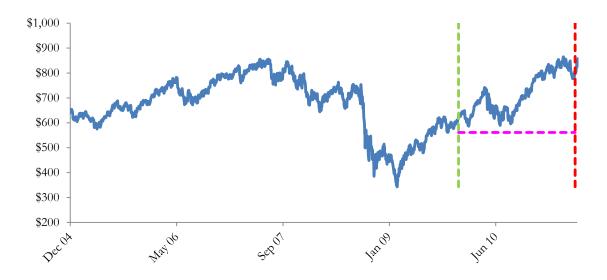
The graph above shows the adjusted closing price of the issuer HSBC for the past several years. The stock price of the issuer is an indication of the financial strength of HSBC. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

## HSBC's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as HSBC. CDS rates are usually given in basis points (bps). One basis point equals 0.01%. Higher CDS rates reflect higher perceived credit risk, higher required yields, and therefore lower market value of HSBC's debt, including outstanding Buffered Accelerated Market Participation Security. Fluctuations in HSBC's CDS rate impact the market value of the notes in the secondary market.

### The Russell 2000 Index Level

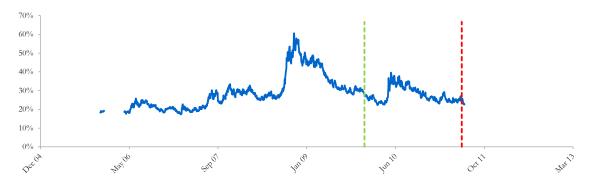


The graph above shows the historical levels of the Russell 2000 Index for the past several years. The final payoff of this note is determined by the Russell 2000 Index level at maturity. Higher fluctuations in the Russell 2000 Index level correspond to a greater uncertainty in the final payout of this Buffered Accelerated Market Participation Security.

### Realized Payoff

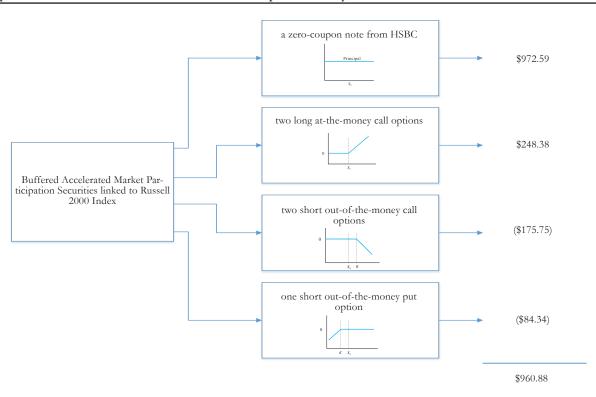
This note matured on June 28, 2011 and investors received \$1,205.00 per note.

## Reference Asset The Russell 2000 Index's Implied Volatility



The annualized implied volatility of the Russell 2000 Index on December 22, 2009 was 27.49%, meaning that options contracts on the Russell 2000 Index were trading at prices that reflect an expected annual volatility of 27.49%. The higher the implied volatility, the larger the expected fluctuations of the Russell 2000 Index level and of the Note's market value during the life of the Notes.

#### Decomposition of this Buffered Accelerated Market Participation Security



This note can be decomposed into different components, and each component can be valued separately. The chart above shows the value of each component of this Buffered Accelerated Market Participation Security.

- 1. Delta measures the sensitivity of the price of the note to the the Russell 2000 Index level on December 22, 2009.
  2. CDS rates can be considered a measure of the probability that an issuer will default over a certain period of time and the likely loss given a default. The lower the CDS rate, the lower the default probability. CDS rate is given in basis points (1 basis point equals 0.01%), and is considered as a market premium, on top of the risk-free rate, that investors require to insure against a potential default.
  3. Fair price evaluation is based on the Black-Scholes model of the the Russell 2000 Index on December 22, 2009.
  4. Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.
  5. Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.