

**Structured Product Details** 

Name Leveraged Performance Securities linked to PowerShares S&P 500

Low Volati

 $\begin{array}{lll} \textbf{Issue Size} & \$240,000 \\ \textbf{Issue Price} & \$1,000 \\ \textbf{Term} & 72 \ \textbf{Months} \\ \textbf{Annualized Coupon} & 0.00\% \end{array}$ 

Pricing Date November 26, 2013
Issue Date November 29, 2013
Valuation Date November 25, 2019
Maturity Date November 29, 2019

IssuerHSBCCDS Rate32.17 bpsSwap Rate1.80%

 Reference Asset
 PowerShares S&P 500 Low Volati's stock

 Initial Level
 \$32.95

 Dividend Rate
 2.69%

 Implied Volatility
 12.15%

 Delta¹
 0.77

Fair Price at Issue \$925.20

CUSIP 40432XNR8 SEC Link www.sec.gov/Archives/edgar/ data/83246/000114420413064849/ v361820\_424b2.htm

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.

Report Prepared On: 08/26/14

# Leveraged Performance Securities linked to PowerShares S&P 500 Low Volati

# Description

HSBC issued \$240,000 of Leveraged Performance Securities linked to PowerShares S&P 500 Low Volati on November 29, 2013 at \$1,000 per note.

These notes are HSBC-branded PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on PowerShares S&P 500 Low Volati's stock price at maturity.

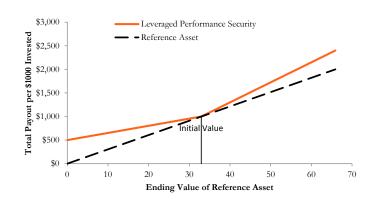
If PowerShares S&P 500 Low Volati's stock price on November 25, 2019 is higher than \$32.95, the notes pay a return equal to the percentage increase in PowerShares S&P 500 Low Volati's stock multiplied by 1.4. If on November 25, 2019 PowerShares S&P 500 Low Volati's stock price is below \$32.95, investors receive the face value per note reduced by the percentage decline in the reference asset. The notes will pay nothing at maturity if the reference asset declines to zero.

## Valuation

This note can be valued as a combination of a note from HSBC, a short at-the-money put option, and 1.4 long at-the-money call options. The short at-the-money put option exposes investors to any decline in PowerShares S&P 500 Low Volati's stock. For reasonable valuation inputs this note was worth \$925.20 when it was issued on November 29, 2013 because the value of the put option investors gave HSBC plus the interest investors would have received on HSBC's straight debt was worth \$74.80 more than the call 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

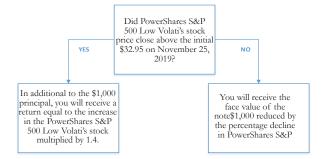


The payoff diagram shows the final payoff of this note given PowerShares S&P 500 Low Volati's stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in PowerShares S&P 500 Low Volati's stock directly.

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### Maturity Payoff Diagram

PowerShares S&P 500 Low Volati's Stock	Note Payoff
\$0.00	\$500.00
\$3.30	\$550.00
\$6.59	\$600.00
\$9.89	\$650.00
\$13.18	\$700.00
\$16.48	\$750.00
\$19.77	\$800.00
\$23.07	\$850.00
\$26.36	\$900.00
\$29.66	\$950.00
\$32.95	\$1,000.00
\$36.25	\$1,140.00
\$39.54	\$1,280.00
\$42.84	\$1,420.00
\$46.13	\$1,560.00
\$49.43	\$1,700.00

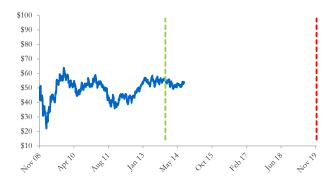


The contingent payoffs of this Leveraged Performance Security.

## **Analysis**

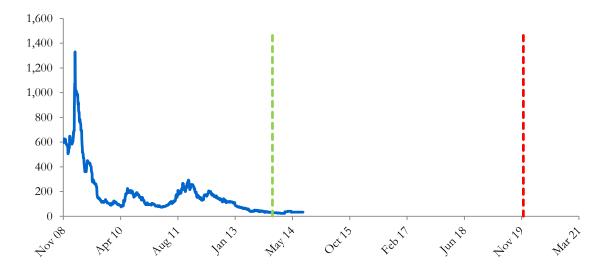
This Leveraged Performance Security pays investors the increase in PowerShares S&P 500 Low Volati's stock multiplied by 1.4, but if PowerShares S&P 500 Low Volati's stock declines over the term of the note, investors will suffer losses equal to the percentage decline in PowerShares S&P 500 Low Volati's stock. In addition, investors bear the credit risk of HSBC. Investors purchasing this Leveraged Performance Security effectively sell at-the-money put options to HSBC, buy at-the-money call options, and a zero-coupon note from HSBC. This Leveraged Performance 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



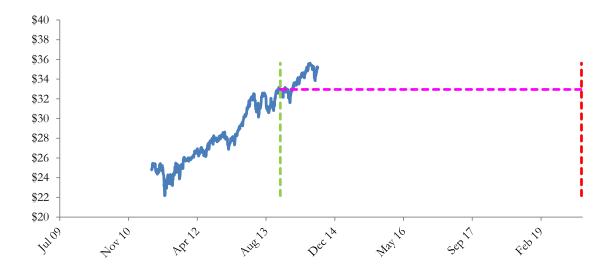
The graph above shows the adjusted closing price of the issuer HSBC for the past several years. The stock price of the issuer is an indication of the financial strength of HSBC. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

## 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 Leveraged Performance Security. Fluctuations in HSBC's CDS rate impact the market value of the notes in the secondary market.

#### PowerShares S&P 500 Low Volati's Stock Price

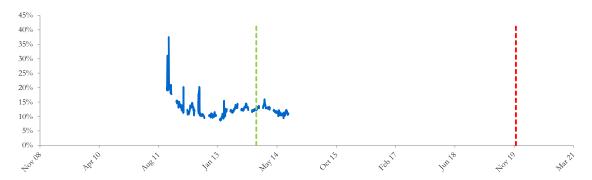


The graph above shows the historical levels of PowerShares S&P 500 Low Volati's stock for the past several years. The final payoff of this note is determined by PowerShares S&P 500 Low Volati's stock price at maturity. Higher fluctuations in PowerShares S&P 500 Low Volati's stock price correspond to a greater uncertainty in the final payout of this Leveraged Performance Security.

## Realized Payoff

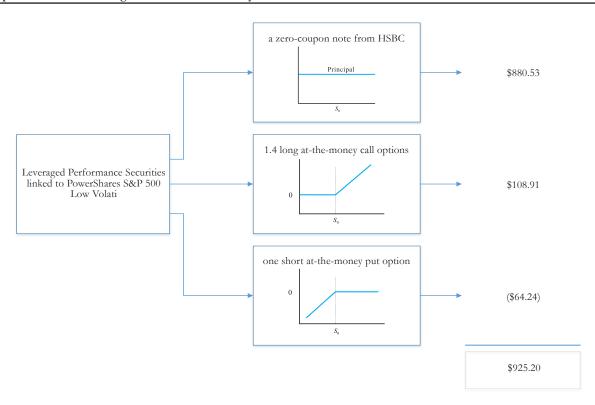
This product will mature on November 29, 2019.

## Reference Asset PowerShares S&P 500 Low Volati's Stock's Implied Volatility



The annualized implied volatility of PowerShares S&P 500 Low Volati's stock on November 26, 2013 was 12.15%, meaning that options contracts on PowerShares S&P 500 Low Volati's stock were trading at prices that reflect an expected annual volatility of 12.15%. The higher the implied volatility, the larger the expected fluctuations of PowerShares S&P 500 Low Volati's stock price and of the Note's market value during the life of the Notes.

#### Decomposition of this Leveraged Performance 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 Leveraged Performance Security.

- Delta measures the sensitivity of the price of the note to the PowerShares S&P 500 Low Volati's stock price on November 26, 2013.
   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.
   Fair price evaluation is based on the Black-Scholes model of the PowerShares S&P 500 Low Volati's stock on November 26, 2013.
   Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.
   Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.