

Structured Product Details

Contingent Income Auto-Callable Securities Linked to UnitedHealth Group Incorporated

Issue Size \$3.71 million Issue Price 12 Months Term **Annualized Coupon** 8.30%

**Pricing Date** October 24, 2012 Issue Date October 29, 2012 Valuation Date October 22, 2013 Maturity Date October 25, 2013

JPMorgan Issuer CDS Rate 32.4 bps 0.88% Swap Rate

Reference Asset UnitedHealth Group Incorporated's stock \$55.92 Initial Level 1.33% Dividend Rate Implied Volatility 26.58%

Fair Price at Issue \$9.69

CUSIP 48126E495 www.sec.gov/Archives/edgar/ data/19617/000095010312005692/ SEC Link dp33793\_424b2-ps784.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.

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# Contingent Income Auto-Callable Securities Linked to UnitedHealth Group Incorporated

# Description

Report Prepared On: 02/03/13

JPMorgan issued \$3.71 million of Contingent Income Auto-Callable Securities Linked to UnitedHealth Group Incorporated on October 29, 2012 at \$10 per note.

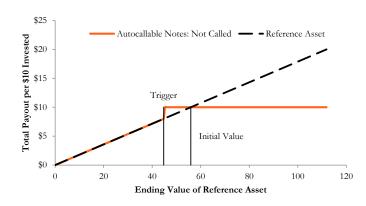
These 12-month notes are UBS-branded reverse convertible notes. On the quarterly coupon observation date, if the notes are not called back, they pay either quarterly coupon at an annualized rate of 8.30% if UnitedHealth Group Incorporated's stock price closes above the coupon barrier \$44.74, or no coupon if the stock price closes below the barrier. The first coupon observation date is January 23, 2013. This autocallable notes will be called back if the reference stock price on any quarterly call observation date after January 23, 2013 exceeds the initial stock price \$55.92. In this case, investors receive the principal plus any unpaid coupons. At maturity, the notes convert into shares of the reference security—0.18 share of UnitedHealth Group Incorporated's stock in this case—if the market value of the reference stock at the note's maturity is below the trigger price \$44.74 (80% of the reference asset on October 24, 2012). Otherwise, investors will receive the \$10 face value.

# Valuation

This note can be viewed as a combination of a zero-coupon note from JPMorgan, a series of contingent coupon payments, and a short put option on the reference asset. For reasonable valuation inputs this note was worth \$9.69 per \$10 face value when it was issued on October 29, 2012, including \$9.93 for the present value of the zero-coupon note, (\$0.60) for the short put options, and \$0.36 for the present value of all future contingent coupon payments.

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

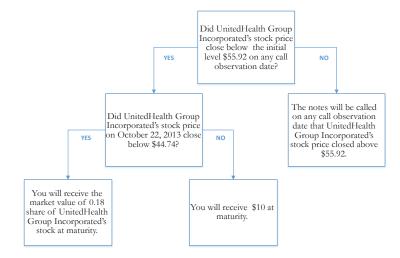


The payoff diagram shows the final payoff of this note given UnitedHealth Group Incorporated's stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in UnitedHealth Group Incorporated's stock directly.

#### Principal Payback Table

UnitedHealth Group Incorpo- rated's Stock	Note Payoff
\$0.00	\$0.00
\$5.59	\$1.00
\$11.18	\$2.00
\$16.78	\$3.00
\$22.37	\$4.00
\$27.96	\$5.00
\$33.55	\$6.00
\$39.14	\$7.00
\$44.74	\$8.00
\$50.33	\$10.00
\$55.92	\$10.00
\$61.51	\$10.00
\$67.10	\$10.00
\$72.70	\$10.00
\$78.29	\$10.00
\$83.88	\$10.00

#### Maturity Payoff Diagram



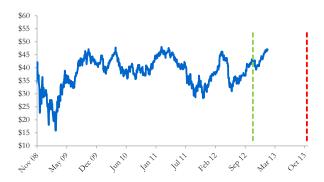
The contingent payoffs of this Contingent Income Auto-Callable Security.

# **Analysis**

The 8.30% coupon rate on this Contingent Income Auto-Callable Security is higher than those paid by JPMorgan on its straight debts but, in addition to JPMorgan's credit risk, investors bear the risk that, 1) the note may be called; 2) the note may pay zero coupon because of the coupon contingency; 3) and the note will be converted into shares of UnitedHealth Group Incorporated's stock when UnitedHealth Group Incorporated's stock is worth substantially less than the face value of the note.

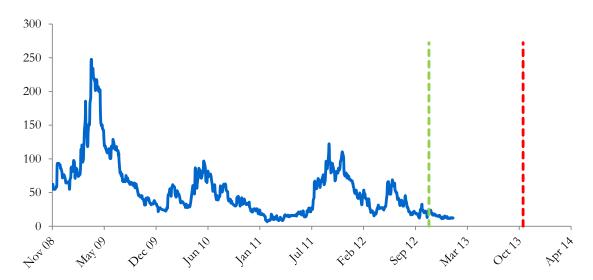
Investors purchasing these autocallable phoenix notes effectively sell contingent put options to JPMorgan and post the note's issue price as collateral to secure satisfaction of the investors' obligations under the option contracts. JPMorgan pays investors a contingent coupon that is part payment for the put options and part interest on the investors' posted collateral. This Contingent Income Auto-Callable Security is fairly priced if and only if the difference between the contingent coupon and interest paid on JPMorgan's straight debt equals the value of the contingent put options investors are giving to JPMorgan. Whether this Contingent Income Auto-Callable Security is suitable or not is identically equivalent to whether selling put options on the reference stock at the option premium being paid by JPMorgan was suitable for the investor.

### JPMorgan's Stock Price



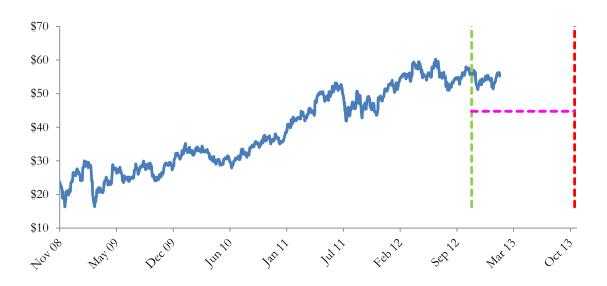
The graph above shows the adjusted closing price of the issuer JPMorgan for the past several years. The stock price of the issuer is an indication of the financial strength of JPMorgan. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

### JPMorgan's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as JPMorgan. 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 JPMorgan's debt, including outstanding Contingent Income Auto-Callable Security. Fluctuations in JPMorgan's CDS rate impact the market value of the notes in the secondary market.

### UnitedHealth Group Incorporated's Stock Price

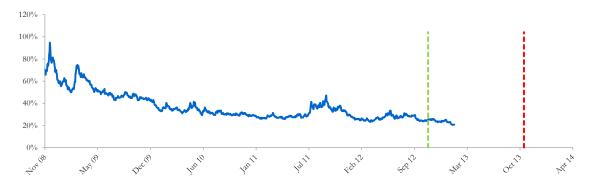


The graph above shows the historical levels of UnitedHealth Group Incorporated's stock for the past several years. The final payoff of this note is determined by UnitedHealth Group Incorporated's stock price correspond to a greater uncertainty in the final payout of this Contingent Income Auto-Callable Security.

### Realized Payoff

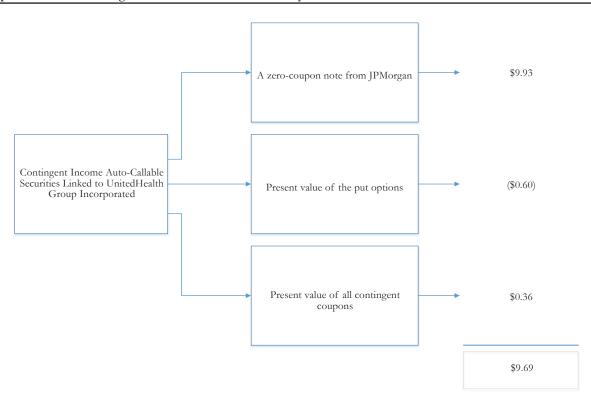
This product will mature on October 25, 2013.

### Reference Asset UnitedHealth Group Incorporated's Stock's Implied Volatility



The annualized implied volatility of UnitedHealth Group Incorporated's stock on October 24, 2012 was 26.58%, meaning that options contracts on UnitedHealth Group Incorporated's stock were trading at prices that reflect an expected annual volatility of 26.58%. The higher the implied volatility, the larger the expected fluctuations of UnitedHealth Group Incorporated's stock price and of the Note's market value during the life of the Notes.

### Decomposition of this Contingent Income Auto-Callable 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 Contingent Income Auto-Callable Security.

- 1. Delta measures the sensitivity of the price of the note to the UnitedHealth Group Incorporated's stock price on October 24, 2012.

  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 UnitedHealth Group Incorporated's stock on October 24, 2012.

  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.