

### Structured Product Details

Name	2x REN Return Enhanced Notes linked to Dow Jones EURO STOXX 50 Index	
Issue Size Issue Price Term Annualized Cor	\$500,000 \$1,000 13 Months upon 0.00%	
Pricing Date Issue Date Valuation Date Maturity Date	January 9, 2008 January 14, 2008 February 9, 2009 February 12, 2009	
Issuer CDS Rate Swap Rate	JPMorgan 32.02 bps 3.80%	
Reference Asse Initial Level Dividend Ra Implied Vola Delta <sup>1</sup>	STOXX 50 Index 4,258.32 te 3.14%	
Fair Price at Is Realized Retur	#* 1011.0	
CUSIP SEC Link	48123MLN0 www.scc.gov/Archives/cdgar/ data/19617/000089109208000219/ c29862_424b2.htm	

Structured Products Research Report

Report Prepared On: 08/02/13

# 2x REN Return Enhanced Notes linked to Dow Jones EURO STOXX 50 Index

## Description

JPMorgan issued \$500,000 of 2x REN Return Enhanced Notes linked to Dow Jones EURO STOXX 50 Index on January 14, 2008 at \$1,000 per note.

These notes are JPMorgan-branded PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on the Dow Jones EURO STOXX 50 Index level at maturity.

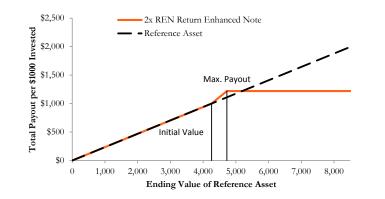
If the Dow Jones EURO STOXX 50 Index level on February 9, 2009 is higher than 4,258.32, but lower than 4,726.74, the notes pay a return equal to the percentage increase in the Dow Jones EURO STOXX 50 Index multiplied by 2.0. If on February 9, 2009 the Dow Jones EURO STOXX 50 Index level is above the 4,726.74, the notes pay the maximum payout of \$1,220.00. If on February 9, 2009 the Dow Jones EURO STOXX 50 Index level is above 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 JPMorgan, a short at-the-money put option, two long at-the-money call options, and two short out-of-the-money call options. The short at-the-money put option exposes investors to any decline in the Dow Jones EURO STOXX 50 Index. The two short out-of-the-money call options has the strike price of 4,726.74, and limits the maximum return of the notes beyond the cap level. For reasonable valuation inputs this note was worth \$946.70 when it was issued on January 14, 2008 because the value of the options investors gave JPMorgan plus the interest investors would have received on JPMorgan's straight debt was worth \$53.30 more than the call options investors received from JPMorgan.

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 Dow Jones EURO STOXX 50 Index level (borizontal axis). For comparison, the dashed line shows the payoff if you invested in the Dow Jones EURO STOXX 50 Index directly.

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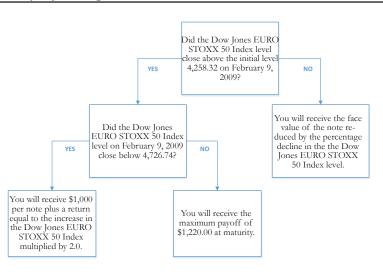
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#### Principal Payback Table

The Dow Jones EURO STOXX 50 Index	Note Payoff
0.00	\$0.00
425.83	\$100.00
851.66	\$200.00
1,277.50	\$300.00
1,703.33	\$400.00
2,129.16	\$500.00
2,554.99	\$600.00
2,980.82	\$700.00
3,406.66	\$800.00
3,832.49	\$900.00
4,258.32	\$1,000.00
4,684.15	\$1,200.00
5,109.98	\$1,220.00
5,535.82	\$1,220.00
5,961.65	\$1,220.00
6,387.48	\$1,220.00

### Maturity Payoff Diagram

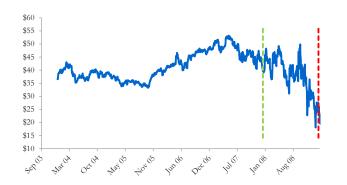


The contingent payoffs of this 2x REN Return Enhanced Note.

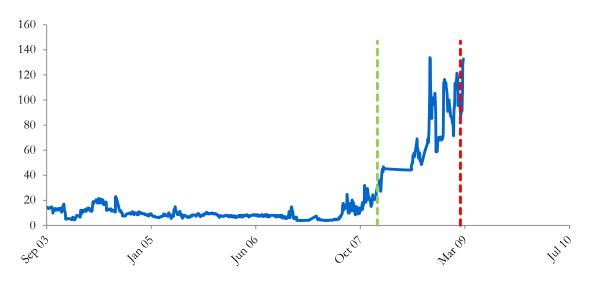
### Analysis

This 2x REN Return Enhanced Note pays investors the increase in the Dow Jones EURO STOXX 50 Index multiplied by 2.0 capped at 22.00%, but if the Dow Jones EURO STOXX 50 Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the Dow Jones EURO STOXX 50 Index. In addition, investors bear the credit risk of JPMorgan. Investors purchasing this 2x REN Return Enhanced Note effectively sell at-the-money put and out-of-the-money call options to JPMorgan, buy at-the-money call options, and a zero-coupon note from JPMorgan. This 2x REN Return Enhanced Note is fairly priced if and only if the market value of the options investors gave JPMorgan plus the interest investors would have received on JPMorgan's straight debt.

#### JPMorgan's Stock Price

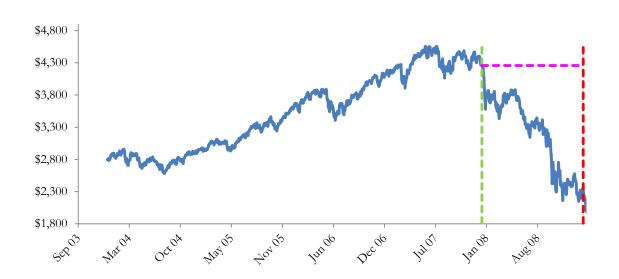


The graph above shows the adjusted closing price of the issuer JPMorgan for the past several years. The stock price of the issuer is an indication of the financial strength of JPMorgan. The adjusted price shown above incorporates any stock split, reverse stock split, etc.



### 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 2x REN Return Enhanced Note. Fluctuations in JPMorgan's CDS rate impact the market value of the notes in the secondary market.



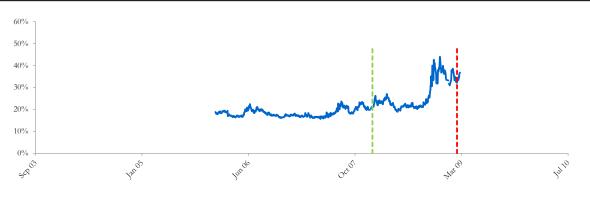
### The Dow Jones EURO STOXX 50 Index Level

The graph above shows the historical levels of the Dow Jones EURO STOXX 50 Index for the past several years. The final payoff of this note is determined by the Dow Jones EURO STOXX 50 Index level at maturity. Higher fluctuations in the Dow Jones EURO STOXX 50 Index level correspond to a greater uncertainty in the final payout of this 2x REN Return Enhanced Note.

### **Realized Payoff**

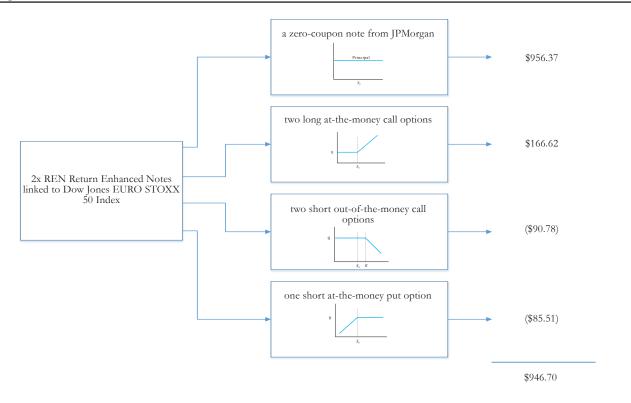
This note matured on February 12, 2009 and investors received \$551.61 per note.

### Reference Asset The Dow Jones EURO STOXX 50 Index's Implied Volatility



The annualized implied volatility of the Dow Jones EURO STOXX 50 Index on January 9, 2008 was 21.32%, meaning that options contracts on the Dow Jones EURO STOXX 50 Index were trading at prices that reflect an expected annual volatility of 21.32%. The higher the implied volatility, the larger the expected fluctuations of the Dow Jones EURO STOXX 50 Index level and of the Note's market value during the life of the Notes.

#### Decomposition of this 2x REN Return Enhanced Note



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 2x REN Return Enhanced Note.

Delta measures the sensitivity of the price of the note to the the Dow Jones EURO STOXX 50 Index level on January 9, 2008.
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 Dow Jones EURO STOXX 50 Index on January 9, 2008.
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.

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