

# Structured Product Details

Name	Buffered Index-Linked Notes linked to the Dow Jones Industrial Average	
Issue Size Issue Price Term Annualized Co	\$78.49 million \$1,000 28 Months upon 0.00%	
Pricing Date Issue Date Valuation Dat Maturity Date	March 14, 2011 March 21, 2011 July 22, 2013 July 29, 2013	
Issuer CDS Rate Swap Rate	Goldman Sachs 66.71 bps 0.96%	
Reference Ass Initial Leve Dividend R Implied Vo Delta <sup>1</sup>	Average Index 11,976.21 ate 2.41%	
Fair Price at I	<b>sue</b> \$988.69	
CUSIP SEC Link	38146M197 www.sec.gov/Archives/edgar/ /886982/000119312511068694/d424b2.htm	

Report Prepared On: 02/01/13

# Buffered Index-Linked Notes linked to the Dow Jones Industrial Average

# Description

Goldman Sachs issued \$78.49 million of Buffered Index-Linked Notes linked to the Dow Jones Industrial Average on March 21, 2011 at \$1,000 per note.

Structured Products Research Report

These notes are Goldman Sachs-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 Dow Jones Industrial Average Index.

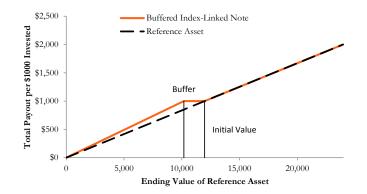
If on July 22, 2013 the Dow Jones Industrial Average Index level is higher than 11,976.21, the notes pay a return equal to the percentage increase in the Dow Jones Industrial Average Index. If on July 22, 2013 the refe is below 11,976.21 but not below 10179.78, investors receive \$1,000 face value per note. If the Dow Jones Industrial Average Index level on July 22, 2013 is lower than 10179.78, investors receive face value per note reduced by 1.18 times the amount the reference asset is below 10179.78 as a percent of the initial level, 11,976.21.

## Valuation

This product can be valued as a combination of a note from Goldman Sachs, 1.18 short out-of-the-money put options, and one long at-the-money call option. For reasonable valuation inputs this note was worth \$988.69 when it was issued on March 21, 2011 because the value of the options investors gave Goldman Sachs plus the interest investors would have received on Goldman Sachs's straight debt was worth \$11.31 more than the options investors received from Goldman Sachs.

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 Industrial Average Index level (horizontal axis). For comparison, the dashed line shows the payoff if you invested in the Dow Jones Industrial Average Index directly.

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### **Related Research**

#### **Research Papers:**

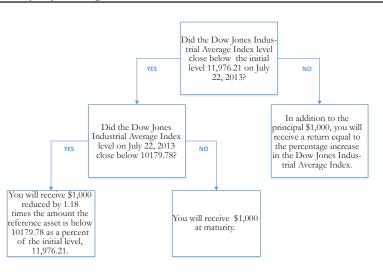
www.slcg.com/research.php

- "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.

#### Principal Payback Table

The Dow Jones Industrial Average Index	Note Payoff
0.00	\$0.00
1,197.62	\$117.63
2,395.24	\$235.28
3,592.86	\$352.93
4,790.48	\$470.58
5,988.11	\$588.23
7,185.73	\$705.88
8,383.35	\$823.53
9,580.97	\$941.18
10,778.59	\$1,000.00
11,976.21	\$1,000.00
13,173.83	\$1,100.00
14,371.45	\$1,200.00
15,569.07	\$1,300.00
16,766.69	\$1,400.00
17,964.32	\$1,500.00

#### Maturity Payoff Diagram

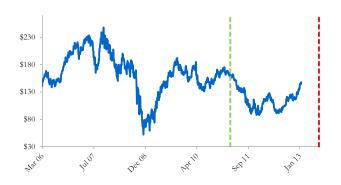


The contingent payoffs of this Buffered Index-Linked Note.

# Analysis

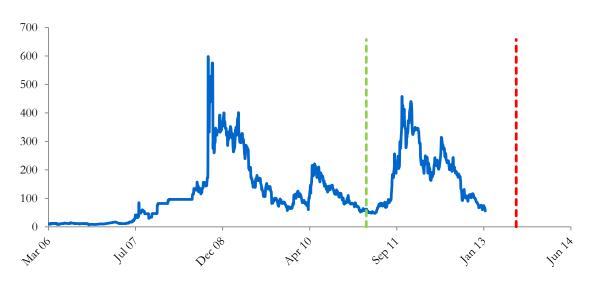
This Buffered Index-Linked Note pays investors the increase in the Dow Jones Industrial Average Index, but if the Dow Jones Industrial Average Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the Dow Jones Industrial Average Index. In addition, investors bear the credit risk of Goldman Sachs. Investors purchasing this Buffered Index-Linked Note effectively sell at-the-money put options to Goldman Sachs, buy at-the-money call options, and a zero-coupon note from Goldman Sachs. This Buffered Index-Linked Note is fairly priced if and only if the market value of the options investors received from Goldman Sachs equals the market value of the options investors gave Goldman Sachs plus the interest investors would have received on Goldman Sachs's straight debt.

#### Goldman Sachs's Stock Price



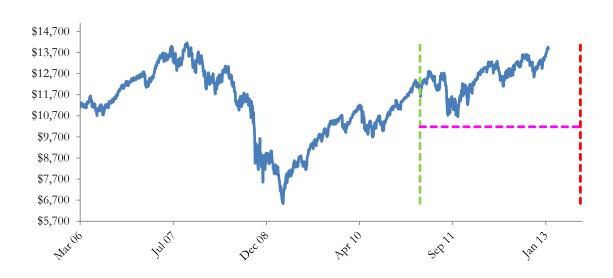
The graph above shows the adjusted closing price of the issuer Goldman Sachs for the past several years. The stock price of the issuer is an indication of the financial strength of Goldman Sachs. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

### Goldman Sachs's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Goldman Sachs. 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 Goldman Sachs's debt, including outstanding Buffered Index-Linked Note. Fluctuations in Goldman Sachs's CDS rate impact the market value of the notes in the secondary market.

### The Dow Jones Industrial Average Index Level

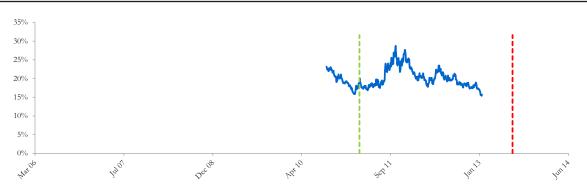


The graph above shows the historical levels of the Dow Jones Industrial Average Index for the past several years. The final payoff of this note is determined by the Dow Jones Industrial Average Index level correspond to a greater uncertainty in the final payout of this Buffered Index-Linked Note.

#### **Realized Payoff**

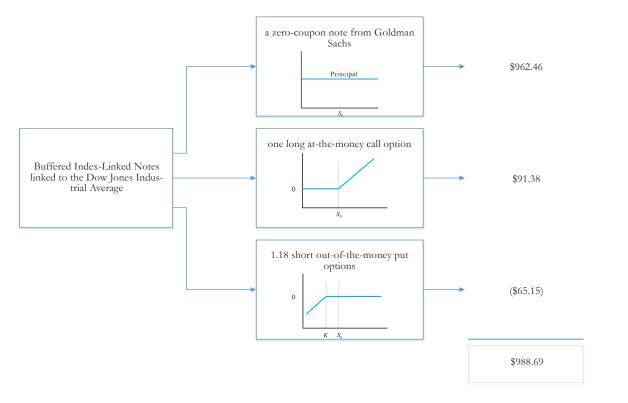
This product will mature on July 29, 2013.

### Reference Asset The Dow Jones Industrial Average Index's Implied Volatility



The annualized implied volatility of the Dow Jones Industrial Average Index on March 14, 2011 was 18.86%, meaning that options contracts on the Dow Jones Industrial Average Index were trading at prices that reflect an expected annual volatility of 18.86%. The higher the implied volatility, the larger the expected fluctuations of the Dow Jones Industrial Average Index level and of the Note's market value during the life of the Notes.

#### Decomposition of this Buffered Index-Linked 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 Buffered Index-Linked Note.

- Delta measures the sensitivity of the price of the note to the the Dow Jones Industrial Average Index level on March 14, 2011.
  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 the Dow Jones Industrial Average Index on March 14, 2011.
  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.

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