

December 2018



**EQUITY DERIVATIVES
MONTHLY UPDATE**

HKEX
香港交易所

Market Development Division

Information for institutional and
corporate investors' reference only

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Futures and Options Information Application

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Xiaomi

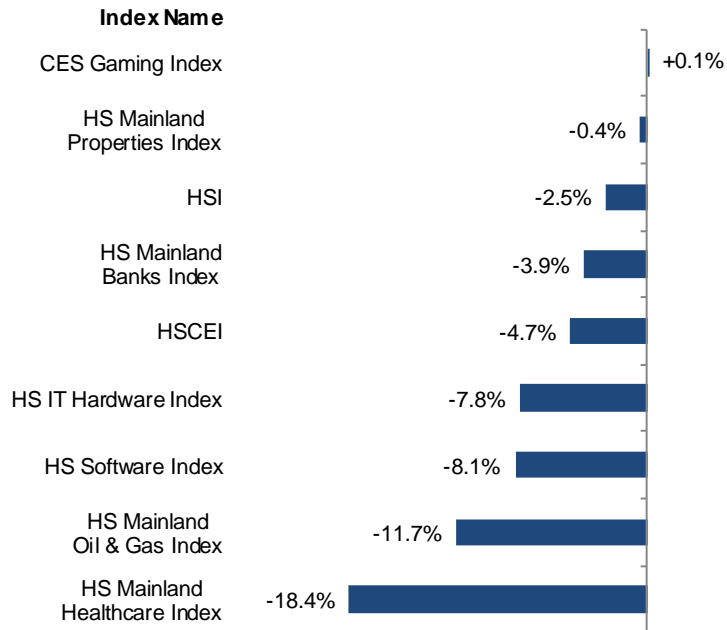


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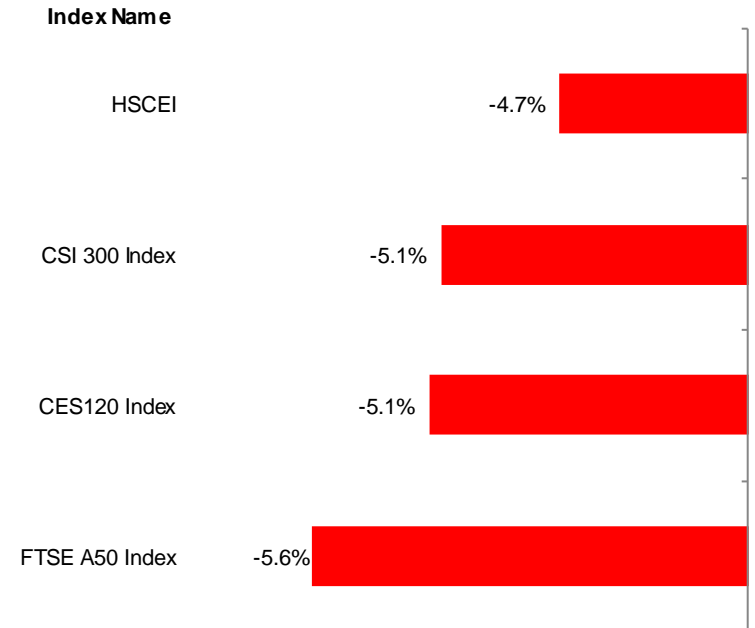


Equity Indices Monthly Performance in December 2018

Sector Indices vs HSI / HSCEI



CES120 vs China Theme Indices



Equity Index Futures Access Codes

Vendor	CES Gaming	HS Mainland Banks	HS Mainland Properties	HS Mainland Oil & Gas	HS Mainland Healthcare	HS Software	HS IT Hardware	CES 120	HSI	HSCEI
Bloomberg	CCSA	BMWA	PPTA	OGIA	HCEA	HISA	IHWA	CESA	HIA	HCA
Reuters	0#HGTI:	0#HMBI:	0#HMPI:	0#HMOI:	0#HMHI:	0#HSSI:	0#HITI:	0#HCHH:	0#HSI:	0#HCEI:
WIND	GTIF	MBIF	MPIF	MOIF	MCIF	SSIF	ITIF	CHHF	HSIF	HHIF
ET Net	GTI	MBI	MPI	MOI	MCI	SSI	ITI	CHH	HSI	HHI

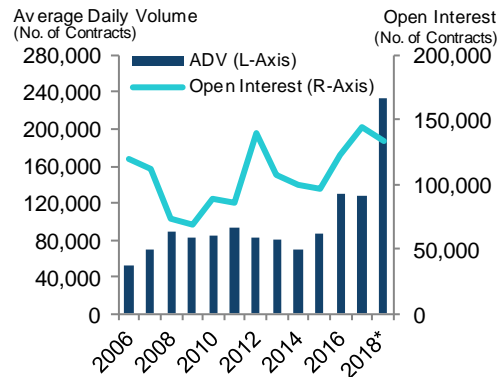


Equity Index Futures & Options

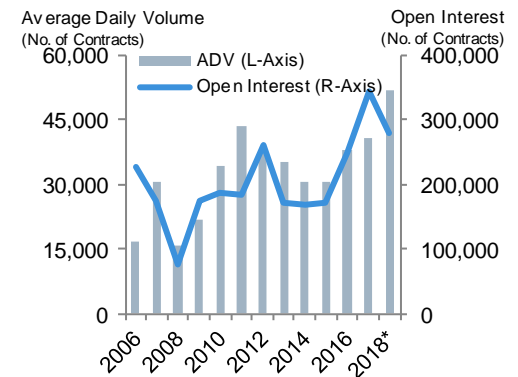
Hang Seng Index (HSI) Futures & Options

HSI Products (2018 vs 2017)	ADV	OI*
HSI Futures	234,424 (+84%)	133,924 (-7%)
Mini-HSI Futures	100,262 (+116%)	12,587 (+28%)
HSI Options	51,693 (+26%)	279,856 (-19%)
Mini-HSI Options	10,005 (+51%)	18,777 (+106%)
HSI Volatility Index Futures	0.0 (-99%)	0 (-)
HSI Dividend Point Index Futures	52 (-29%)	1,850 (-80%)

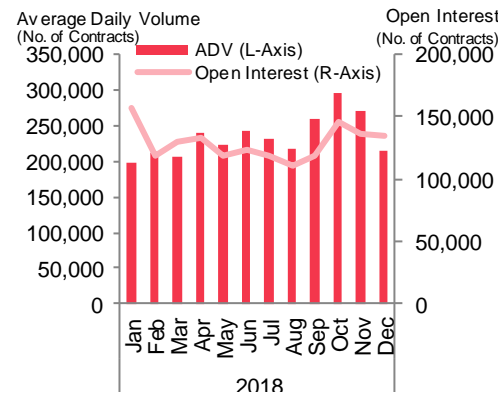
HSI Futures (YoY)



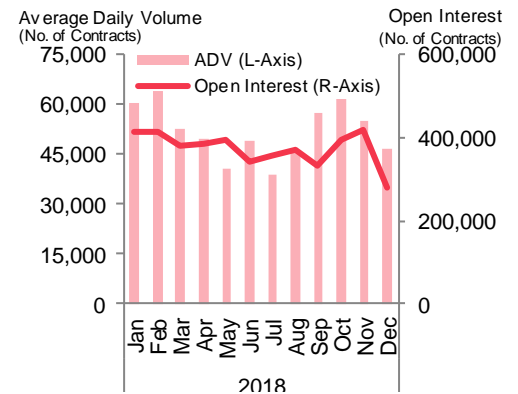
HSI Options (YoY)



HSI Futures (MoM)



HSI Options (MoM)



Data Source: HKEX

* OI compared to previous year-end
As at 31 December 2018

Information for reference only

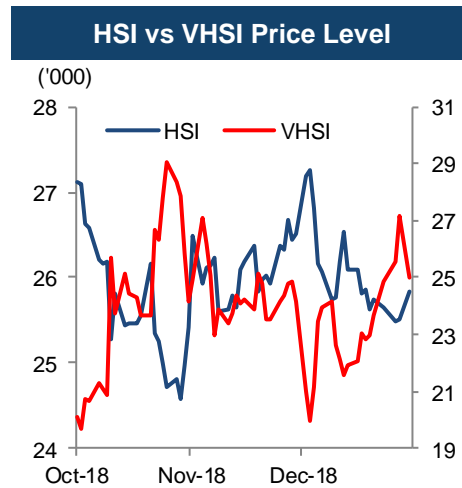
Equity Index Futures & Options

HSI Futures & Options

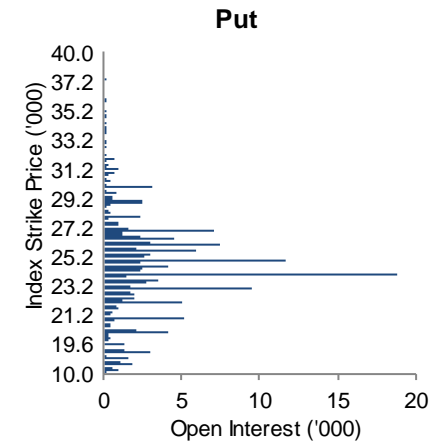
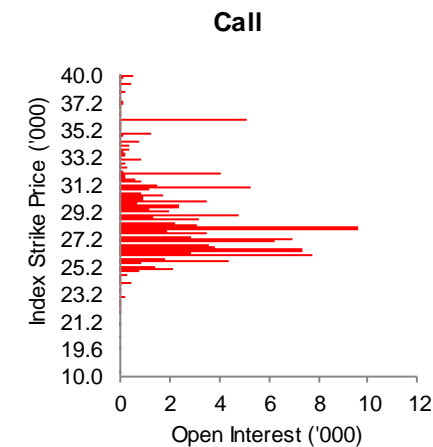
Hang Seng Index	
Index Description	Includes the largest and most liquid stocks listed in Hong Kong
Index Level	25,845.70 (As at 31 Dec 2018)
Index Volatility (30-Day Historical)	17.7
Index Avg. Day High-Low Range	225.43 (Dec 2018)
HSCFI Correlation (2018)	0.958

Hang Seng Index Futures	
Contract Multiplier	HK\$50
Notional Value (1 Contract)	HK\$1.29Mn (As at 31 Dec 2018)

Transaction Cost*	
Stamp Duty	N/A
Trading Fee	HK\$10 / contract
SFC Levy	HK\$0.54 / contract
Commission Rate	Negotiable
Margin as of 2 January 2019	HK\$76,650



Distribution of HSI Index Options OI in Month-end

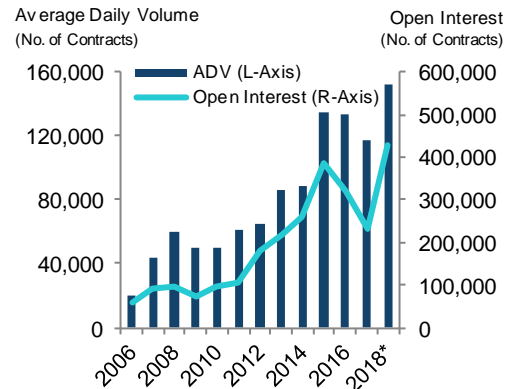


Equity Index Futures & Options

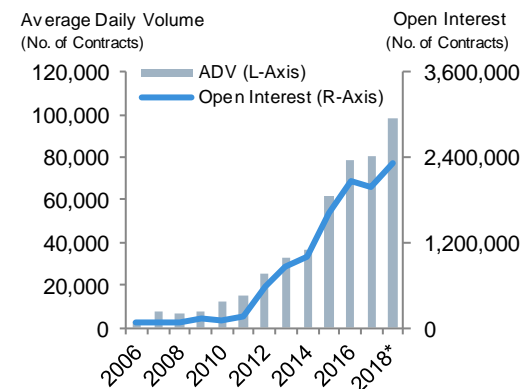
Hang Seng China Enterprises Index (HSCEI) Futures & Options

HSCEI Products (2018 vs 2017)	ADV	OI*
HSCEI Futures	152,241 (+30%)	428,692 (+84%)
Mini HSCEI Futures	22,568 (+52%)	5,292 (+3%)
HSCEI Options	98,610 (+23%)	2,309,038 (+16%)
Mini HSCEI Options	2,372 (+55%)	5,132 (0%)
HSCEI Dividend Point Index Futures	1,680 (-12%)	125,077 (+72%)

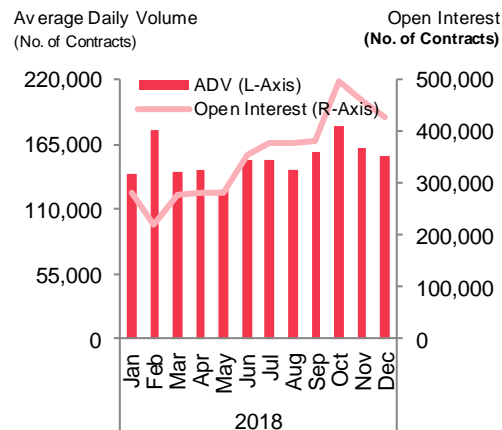
HSCEI Futures (YoY)



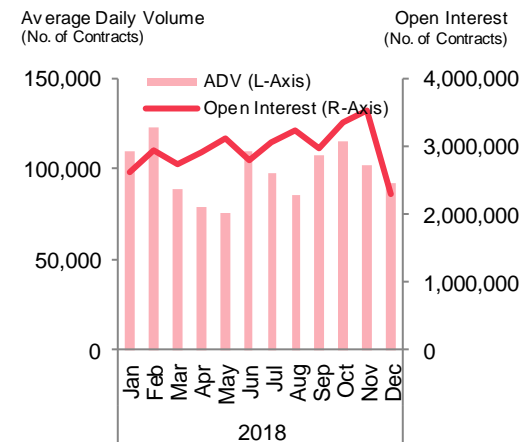
HSCEI Options (YoY)



HSCEI Futures (MoM)



HSCEI Options (MoM)



Equity Index Futures & Options

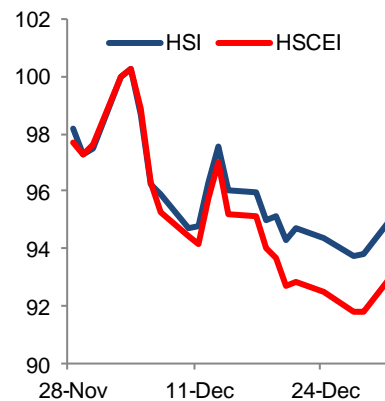
HSCEI Futures & Options

HSCEI	
Index Description	Comprises the largest and most liquid H shares
Index Level	10,124.75 (As at 31 Dec 2018)
Index Volatility (30-Day Historical)	20.1
Index Avg. Day High-Low Range	104.13 (Dec 2018)
Correlation with HSI, CES120 (2018)	0.958, 0.895
Correlation with CSI300, FTSE A50 (2018)	0.791, 0.779

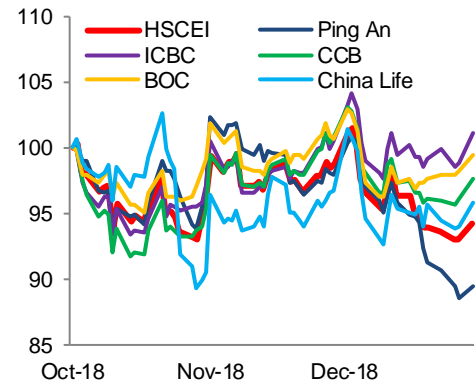
HSCEI Futures	
Contract Multiplier	HK\$50
Notional Value (1 Contract)	HK\$0.51Mn (As at 31 Dec 2018)

Transaction Cost*	
Stamp Duty	N/A
Trading Fee	HK\$3.5 / contract
SFC Levy	HK\$0.54 / contract
Commission Rate	Negotiable
Margin as of 2 January 2019	HK\$30,200

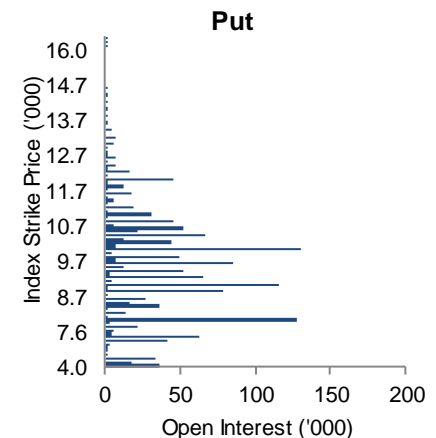
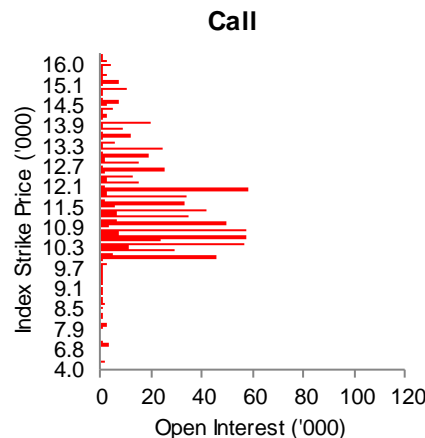
HSI vs HSCEI



HSCEI & Top 5 Constituents



Distribution of HSCEI Index Options OI in Month-end



Data Source: HKEX, Bloomberg

* All calculations are in HKD and exclude commission fees
As at 31 December 2018

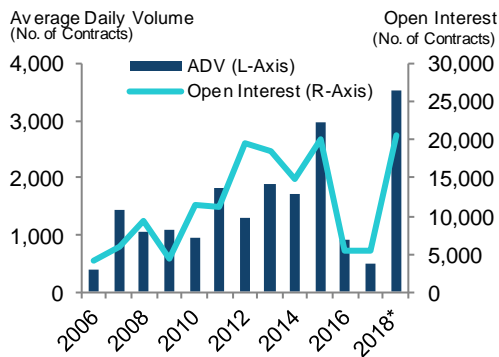
Information for reference only

Equity Futures & Options

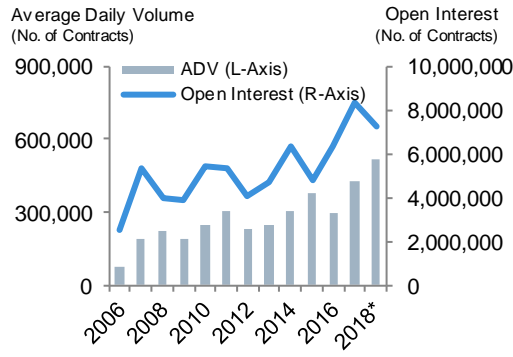
Single Stock Futures & Options

Single Stock Derivatives ADV (2018 vs 2017)	ADV	OI*	No. of Single Stock Derivatives	
Stock Futures	3,508 (+613%)	20,476 (+269%)	Single Stock Futures	78
Stock Options	517,395 (+21%)	7,213,486 (-13%)	Single Stock Options	96

Stock Futures (YoY)



Stock Options (YoY)

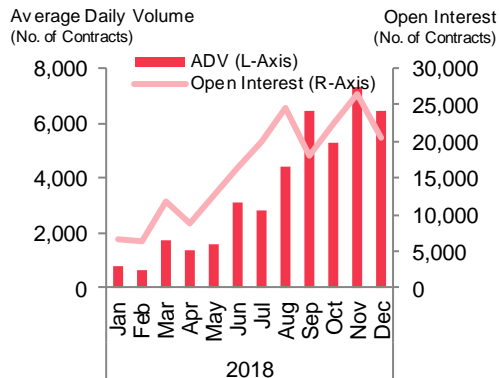


Latest and Future Developments

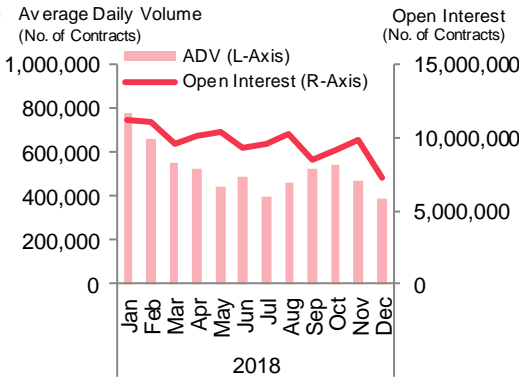
Stock Futures

- Products
 - 3 A-shares ETFs futures contracts
 - Total 78 stock futures contracts

Stock Futures (MoM)



Stock Options (MoM)



Stock Options

- Products
 - 3 A-shares ETFs options contracts
 - Total 96 stock options contracts
- Market Makers (MMs)
 - 3 types of market makers (PMM/ CQMM/ QRMM)
 - CQMM to provide 50 series continuous quotations



Data Source: HKEX

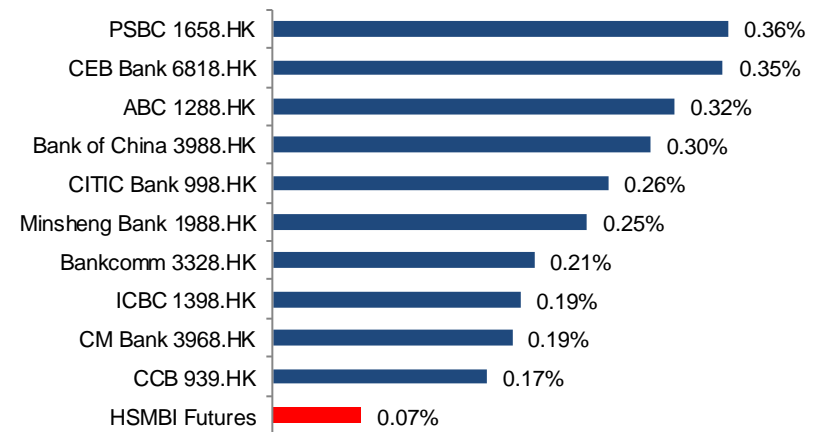
* OI compared to previous year-end
As at 31 December 2018

Information for reference only

Hang Seng Mainland Banks Index Futures Performance

Hang Seng Mainland Banks Index (HSMBI)	
Index Description	10 largest and most representative HKEX-listed mainland banks stocks
Index Level	2,863.20 (As at 31 December 2018)
Index Volatility (30-Day Historical)	21.8
Index Avg. Day High-Low Range	27.37 (December 2018)
HSI Correlation (2018)	0.887
HSCI Correlation (2018)	0.957

5-Min Avg. Bid-Ask Spreads (31 December 2018)

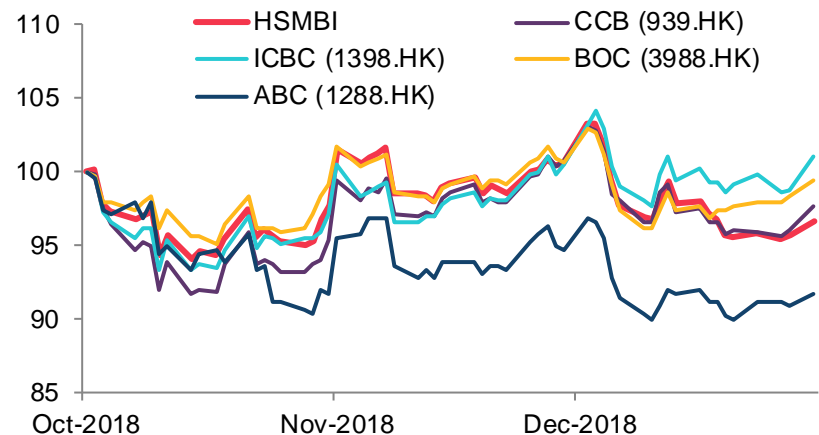


Hang Seng Mainland Banks Index Futures	
Contract Multiplier	HK\$50
Notional Value (1 Contract)	HK\$0.14Mn (As at 31 December 2018)
Avg. Quote Size	HK\$0.72Mn (5 Contracts)
Avg. Bid-Ask Trading Spread	2.3 index points (December 2018)
Liquidity Providers	CSC, Flow, IBG, IMC, Optiver, Tibra, Yue Kun

1 HSMBI Futures have relatively tighter Bid-Ask Spreads

Transaction Cost*	
Stamp Duty	N/A
Trading Fee	HK\$2 / contract
SFC Levy	HK\$0.54 / contract
Margin as of 2 January 2019	HK\$7,070

Index & Constituents 3-Month Performance (Rebased to 100)



2 Futures contracts have relatively lower transaction costs

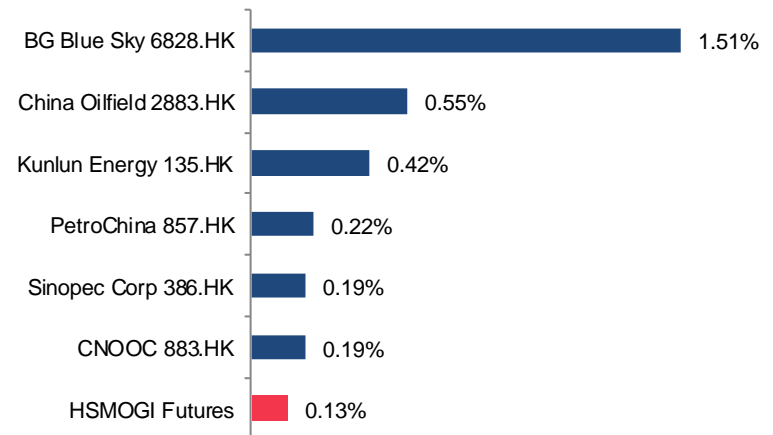
3 HSMBI Futures can be used for hedging



Hang Seng Mainland Oil & Gas Index Futures Performance

Hang Seng Mainland Oil & Gas Index (HSMOGI)	
Index Description	7 largest and most representative HKEX-listed mainland oil & gas stocks
Index Level	1,710.41 (As at 31 December 2018)
Index Volatility (30-Day Historical)	23.1
Index Avg. Day High-Low Range	22.56 (December 2018)
HSI Correlation (2018)	0.67
HSCEI Correlation (2018)	0.691

5-Min Avg. Bid-Ask Spreads (31 December 2018)

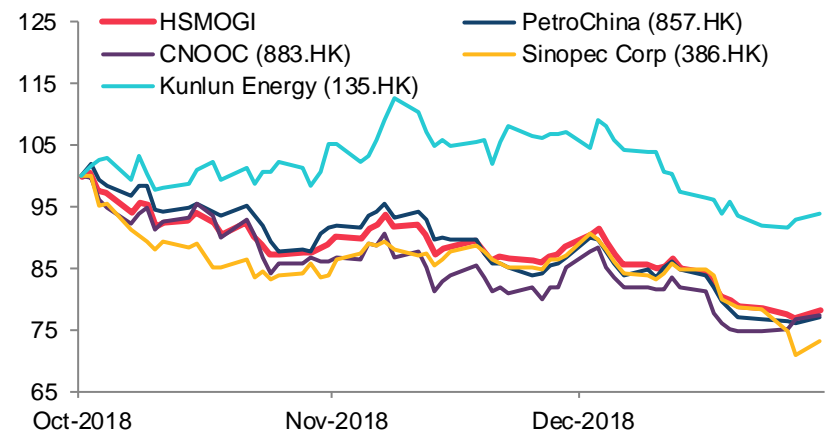


Hang Seng Mainland Oil & Gas Index Futures	
Contract Multiplier	HK\$50
Notional Value (1 Contract)	HK\$86K (As at 31 December 2018)
Avg. Quote Size	HK\$0.43Mn (5 Contracts)
Avg. Bid-Ask Trading Spread	2.4 index points (December 2018)
Liquidity Providers	Flow , IBG, IMC, Optiver, Tibra, Yue Kun

1 HSMOGI Futures have relatively tighter Bid-Ask Spreads

Transaction Cost*	
Stamp Duty	N/A
Trading Fee	HK\$2 / contract
SFC Levy	HK\$0.54 / contract
Margin as of 2 January 2019	HK\$5,450

Index & Constituents 3-Month Performance (Rebased to 100)



2 Futures contracts have relatively lower transaction costs

3 HSMOGI Futures can be used for hedging



Data Source: HKEX, HSIL, Bloomberg

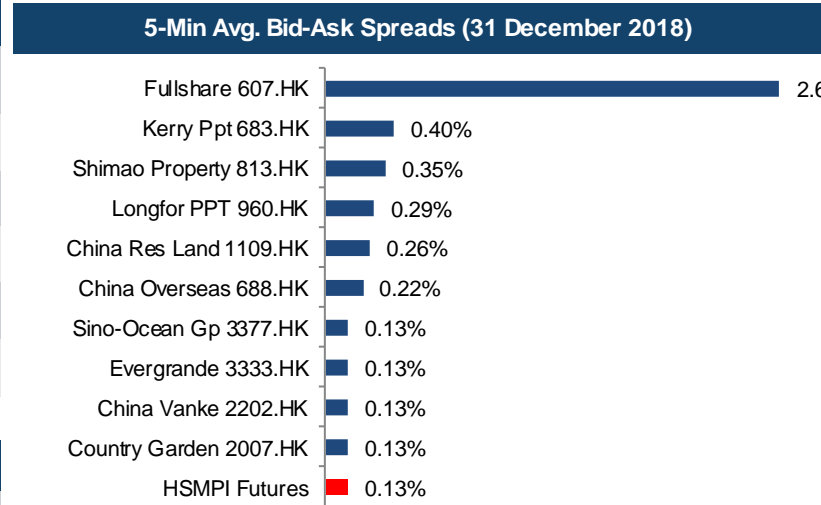
* All calculations are in HKD and exclude commission fees

As at 31 December 2018

Information for reference only

Hang Seng Mainland Properties Index Futures Performance

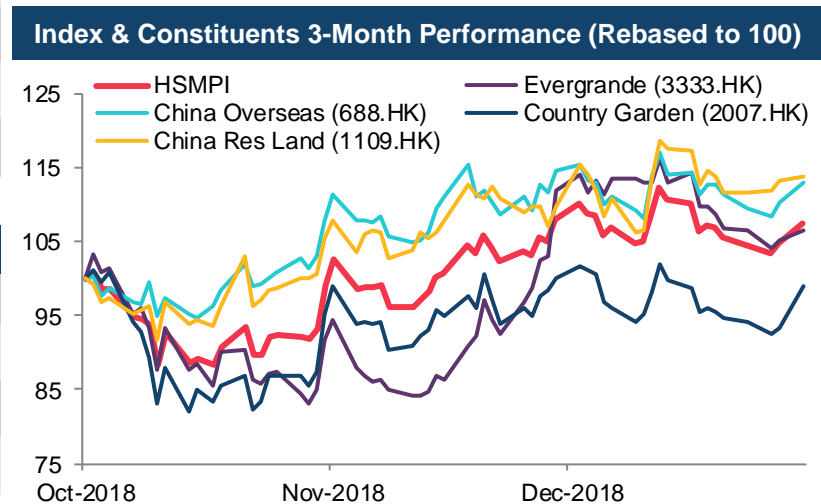
Hang Seng Mainland Properties Index (HSMPI)	
Index Description	10 largest and most representative HKEX-listed mainland properties stocks
Index Level	6,093.37 (As at 31 December 2018)
Index Volatility (30-Day Historical)	37.3
Index Avg. Day High-Low Range	95.67 (December 2018)
HSI Correlation (2018)	0.758
HSCEI Correlation (2018)	0.745



Hang Seng Mainland Properties Index Futures	
Contract Multiplier	HK\$50
Notional Value (1 Contract)	HK\$0.30Mn (As at 31 December 2018)
Avg. Quote Size	HK\$1.5Mn (5 Contracts)
Avg. Bid-Ask Trading Spread	6.3 index points (December 2018)
Liquidity Providers	Flow , IMC, Optiver

1 HSMPI Futures have relatively tighter Bid-Ask Spreads

Transaction Cost*	
Stamp Duty	N/A
Trading Fee	HK\$2 / contract
SFC Levy	HK\$0.54 / contract
Margin as of 2 January 2019	HK\$21,330



2 Futures contracts have relatively lower transaction costs

3 HSMPI Futures can be used for hedging



Hang Seng IT Hardware Index Futures Performance

Hang Seng IT Hardware Index (HSITHI)

Index Description	10 largest and most representative HKEX-listed IT hardware stocks
Index Level	2,562.24 (As at 31 December 2018)
Index Volatility (30-Day Historical)	26.5
Index Avg. Day High-Low Range	34.82 (December 2018)
HSI Correlation (2018)	0.738
HSCFI Correlation (2018)	0.687

Hang Seng IT Hardware Index Futures

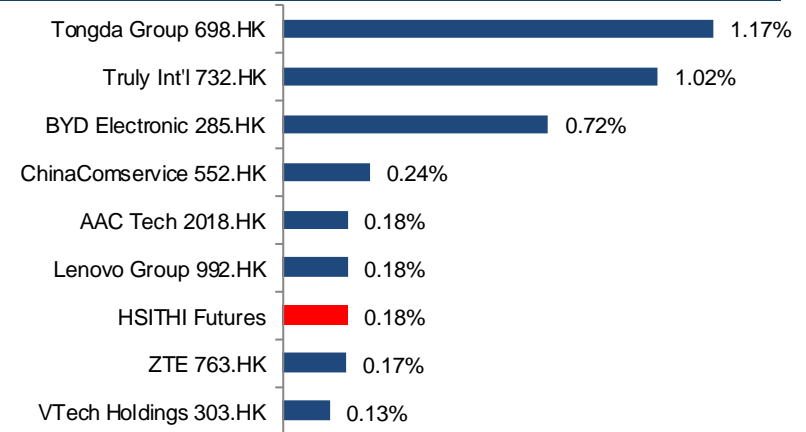
Contract Multiplier	HK\$50
Notional Value (1 Contract)	HK\$0.13Mn (As at 31 December 2018)
Avg. Quote Size	HK\$0.64Mn (5 Contracts)
Avg. Bid-Ask Trading Spread	5.3 index points (December 2018)
Liquidity Providers	Flow

Transaction Cost*

Stamp Duty	N/A
Trading Fee	HK\$2 / contract
SFC Levy	HK\$0.54 / contract
Margin as of 2 January 2019	HK\$8,640

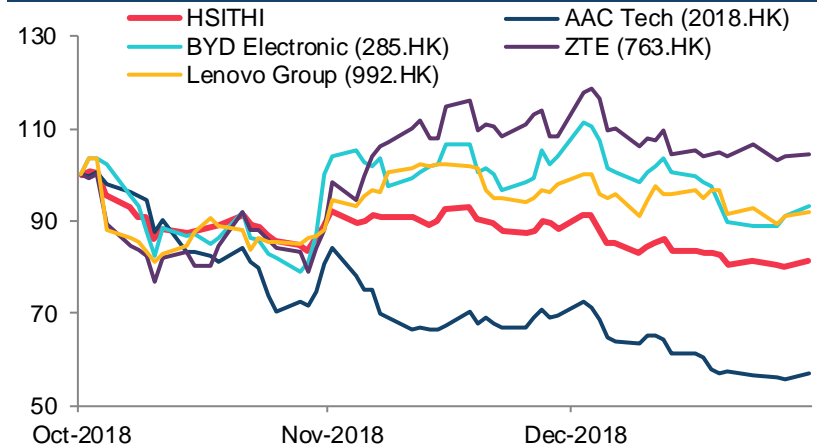
2 Futures contracts have relatively lower transaction costs

5-Min Avg. Bid-Ask Spreads (31 December 2018)



1 HSITHI Futures have relatively tighter Bid-Ask Spreads

Index & Constituents 3-Month Performance (Rebased to 100)



3 HSITHI Futures can be used for hedging



Data Source: HKEX, HSIL, Bloomberg

* All calculations are in HKD and exclude commission fees

As at 31 December 2018

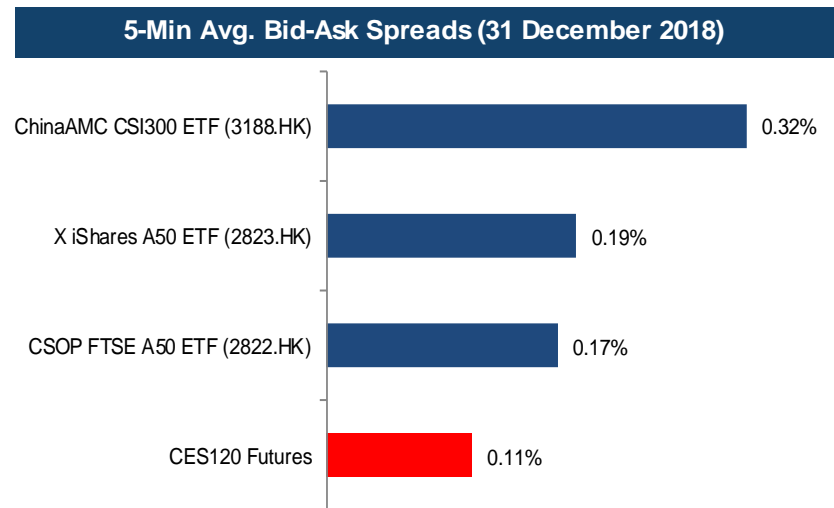
Information for reference only

CES120 Index Futures Performance

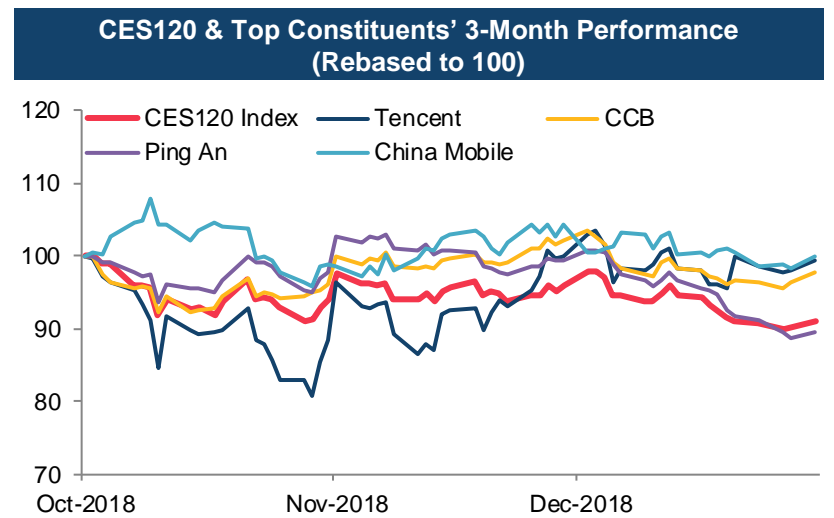
CES120 Index	
Index Description	80 A-Shares and 40 HK-listed Mainland China H-shares, P-chips, and red chips
Index Level	5,659.03 (As at 31 December 2018)
Index Volatility (30-Day Historical)	18.4
Index Avg. Day High-Low Range	53.42 (December 2018)
CSI300 Correlation (2018)	0.938
FTSE A50 Correlation (2018)	0.942

CES120 Index Futures	
Contract Multiplier	HK\$50
Notional Value (1 Contract)	HK\$0.28Mn (As at 31 December 2018)
Average Quote Size	HK\$1.41Mn (5 Contracts)
Average Bid-Ask Trading Spread	9.1 index points (December 2018)
Liquidity Providers	Flow, IMC, Tibra

Transaction Cost*	
Stamp Duty	N/A
Trading Fee	HK\$5 / contract
SFC Levy	HK\$0.54 / contract
Margin as of 2 January 2019	HK\$14,830



1 CES120 Futures have relatively tighter Bid-Ask Spreads



3 CES120 Futures can be used to hedge A-share positions

2 Futures contracts have relatively lower transaction costs



Sector Index and Sector Index Futures Access Codes

Hong Kong and International Information Vendors								
Information Vendor	Mainland Banks Index	Mainland Banks Index Futures	Mainland Properties Index	Mainland Properties Index Futures	Mainland Oil & Gas Index	Mainland Oil & Gas Index Futures	IT Hardware Index	IT Hardware Index Futures
AASTOCKS		221420		221425		221415		221435
Activ Financial	=0200700.HK	MBI/16K.HF	=0200800.HK	MPI/16K.HF	=0201000.HK	MOI/16K.HF	=0201100.HK	ITI/16K.HF
AFE	837451	870809	837451	870810	837451	870808	837451	870812
Bloomberg	HSMBI Index	BMWA Index	MSMPI Index	PPTA Index	HSMOGI Index	OGIA Index	HSITHI Index	IHWA Index
DB Power		MBI		MPI		MOI		ITI
ET Net	MBN	MBI	MPR	MPI	MOG	MOI	ITW	ITI
Infocast	HSMBI	MBI	MSMPI	MPI	MOGI	MOI	ITHI	ITI
QuotePower	SEHK.HHSM BI	P11223	SEHK.HHSM PI	P11224	SEHK.HHS MOGI	P11222	SEHK.HHSIT HI	P11226
Telequote		MBImy		MPImy		MOImy		ITImy

Mainland Information Vendors								
Information Vendor	Mainland Banks Index	Mainland Banks Index Futures	Mainland Properties Index	Mainland Properties Index Futures	Mainland Oil & Gas Index	Mainland Oil & Gas Index Futures	IT Hardware Index	IT Hardware Index Futures
East Money	HSMBI	MBI	HSMPI	MPI	HSMOGI	MOI	HSITHI	ITI
Hexin Flush Financial		MBIC		MPIC		MOIC		ITIC
Pobo Financial		MBI+Month+Year		MPI+Month+Year		MOI+Month+Year		ITI+Month+Year
Qianlong	999905	209	999902	209	999903	209	999906	209
Wind	HSMBI	MBIF+yyymm+HK	HSMPI	MPIF+yyymm+HK	HSMOGI	MOIF+yyymm+HK	HSITHI	ITIF+yyymm+HK



CES120 Index and CES120 Index Futures Access Codes

Hong Kong and International Information Vendors		
Information Vendor	CES 120 Index	CES 120 Index Futures
Bloomberg Finance L.P.	CES120	CESA Index DES <GO>
Thomson Reuters	.HKCES120	0#HCHH:
AAStocks.com Limited	110056	221360
AFE Solutions Ltd.	837505	870800
DB Power Online Limited	CES120	CHH
ET Net Limited	CEC	CHH
Infocast Limited	CE120	CHH
Interactive Data Group	I:CES120	Fn:CHH\MYYDD
Marketprizm Hong Kong Limited	CES120	CHHmy
SIX Financial Information Ltd.	CES120	CHHmy
Telequote Data International Limited	CES120	CHHmy

Mainland Information Vendors		
Information Vendor	CES 120 Index	CES 120 Index Futures
Hithink RoyalFlush Information Network Ltd	CES120	CHHC
Shanghai DZH Limited	CES120	CHH+Month Code+Year Code
Shanghai Gildata Services Co Ltd	CES120	-
Shanghai Wind Information Co., Ltd	CES120	CHHF+yyymm+.HK
Zheng Zhou Esunny Information Technology Co, Ltd.	-	CHH
Shanghai Wenhua Financial Information Ltd	-	CHHmy
Shanghai Qianlong Advanced Technology Co Ltd	CES120	Page 209

