

## ORDER ENTRY PROTOCOLS - AMERICAS

### Equities, Derivatives & Fixed Income Markets

PROVIDER	TRADING VENUE	ORDER ENTRY PROTOCOL	EQUITIES	FUTURES	OPTIONS	FIXED INCOME	nxAccess	nxAccess normalized
Cboe Global Markets	Cboe BYX	BATS Binary Order Entry 2	✓				✓	
	Cboe BZX		✓				✓	
	Cboe EDGA		✓				✓	
	Cboe EDGX		✓				✓	
	Cboe BZX Options	BATS Binary Order Entry 2			✓		✓	
	Cboe EDGX Options				✓		✓	
	Cboe C1				✓		✓	
	Cboe C2				✓		✓	
	Cboe Futures (CFE)	BATS Binary Order Entry 2		✓	✓		✓	
	Chicago Mercantile Exchange	CBOT	CME Globex iLink 3		✓	✓		✓
CME		✓		✓		✓	✓	
COMEX		✓		✓		✓	✓	
NYMEX		✓		✓		✓	✓	
All Other Channels		✓		✓		✓	✓	
BrokerTec		CME Globex iLink 3				✓	✓	
Intercontinental Exchange	NYSE	NYSE Pillar Binary 1	✓				✓	
	NYSE American		✓				✓	
	NYSE Arca		✓				✓	
	NYSE National		✓				✓	
	ICE Futures US	ICE FIX		✓			✓	
Nasdaq OMX	Nasdaq Stock Market	Nasdaq OUCH 4	✓				✓	
	Nasdaq BX		✓				✓	
	Nasdaq PSX		✓				✓	
	Nasdaq Fixed Income	Nasdaq OUCH				✓	✓	
TMX Group	Montréal Exchange	MX SAIL	✓				✓	✓

## ORDER ENTRY PROTOCOLS - EUROPE

Equities, Derivatives & Fixed Income Markets

PROVIDER	TRADING VENUE	ORDER ENTRY PROTOCOL	EQUITIES	FUTURES	OPTIONS	FIXED INCOME	nxAccess	nxAccess normalized
Cboe Global Markets	Cboe Europe Equities - BXE	BATS Binary Order Entry 2	✓				✓	
	Cboe Europe Equities - CXE		✓				✓	
	Cboe Europe Equities - DXE		✓				✓	
Deutsche Börse	Eurex	Enhanced Trading Interface ETI		✓			✓	
	Xetra		✓				✓	
Euronext	Euronext	Optiq - SBE	✓	✓	✓		✓	
	Euronext Amsterdam		✓	✓	✓		✓	
	Euronext Brussels		✓	✓	✓		✓	
	Euronext Dublin		✓	✓			✓	
	Euronext Lisbon		✓	✓	✓		✓	
	Euronext London		✓	✓	✓		✓	
	Euronext Paris		✓	✓	✓		✓	
	Alternext Paris		✓	✓			✓	
Intercontinental Exchange	ICE UK LIFFE	ICE FIX		✓			✓	
London Metal Exchange (HKEx)	LME	LME FIX 4		✓	✓		✓	
London Stock Exchange Group	Borsa Italiana	LSE Native	✓	✓	✓		✓	
	EuroTLX		✓	✓	✓		✓	
	FTSE		✓	✓	✓		✓	
	London Stock Exchange		✓	✓	✓		✓	
	Trade Echo		✓	✓	✓		✓	
	Turquoise	✓	✓	✓		✓		
SIX Swiss Exchange	SIX Swiss Exchange	OTI - OUCH	✓				✓	

## ORDER ENTRY PROTOCOLS - ASIA PACIFIC

### Equities, Derivatives & Fixed Income Markets

PROVIDER	TRADING VENUE	ORDER ENTRY PROTOCOL	EQUITIES	FUTURES	OPTIONS	FIXED INCOME	nxAccess	nxAccess normalized
Hong Kong Exchanges and Clearing	HKEx Securities	OTP-C	✓				✓	
	HKEx Derivatives	OAPI		✓	✓		TBD	
Japan Exchange Group	Osaka Exchange (OSE)	OUCH		✓	✓		✓	
Korea Exchange	KOSPI	Exture+	✓	✓	✓	✓	✓	
	KOSDAQ		✓				✓	
National Stock Exchange of India	NSE	CTCL	✓				✓	
Taiwan Futures Exchange	TAIFEX	FTS		✓			✓	

## MARKET DATA FEEDHANDLERS - AMERICAS

### Equities, Derivatives & Fixed Income Markets

PROVIDER	TRADING VENUE	PROTOCOL	EQUITIES	FUTURES	OPTIONS	FIXED INCOME	STATUS	Per FPGA card instance	
								Max Market Count	Max Symbols
Cboe Global Markets	Cboe BYX	PITCH 2 Equities	✓				✓	4	16K
	Cboe BZX		✓				✓		
	Cboe EDGA		✓				✓		
	Cboe EDGX		✓				✓		
Cboe Global Markets	Cboe BZX Options	PITCH 2 Options			✓		✓	4	128K
	Cboe EDGX Options				✓		✓		
	Cboe C1				✓		✓		
	Cboe C2				✓		✓		
	Cboe Futures (CFE)	PITCH 1		✓	✓		✓	1	16K
Chicago Mercantile Exchange	CBOT	Globex MDP3		✓	✓		✓	4	32K
	CME			✓	✓		✓		
	COMEX			✓	✓		✓		
	NYMEX			✓	✓		✓		
	All Other Channels			✓	✓		✓		
	BrokerTec	Globex MDP3				✓	✓	1	16k
Intercontinental Exchange	NYSE	XDP Integrated	✓				✓	4	16K
	NYSE American		✓				✓		
	NYSE Arca		✓				✓		
	NYSE National		✓				✓		
	ICE Futures US	iMpact		✓			✓		
Nasdaq OMX	Nasdaq Stock Market	Totalview Itch	✓				✓	4	16K
	Nasdaq BX		✓				✓		
	Nasdaq PSX		✓				✓		
	Nasdaq Fixed Income	NFI Itch				✓	✓		
SIAC	All US Options Venues	OPRA Binary			✓		✓	1	256K
TMX Group	Montréal Exchange	OBF 2.0	✓				✓	1	16K

## MARKET DATA FEEDHANDLERS - EUROPE

### Equities, Derivatives & Fixed Income Markets

PROVIDER	TRADING VENUE	PROTOCOL	EQUITIES	FUTURES	OPTIONS	FIXED INCOME	STATUS	Per FPGA card instance	
								Max Market Count	Max Symbols
Cboe Global Markets	Cboe Europe Equities - BXE	PITCH 2	✓				✓	3	16K
	Cboe Europe Equities - CXE		✓				✓		
	Cboe Europe Equities - DXE		✓				✓		
Deutsche Börse	Eurex	EOBI		✓			✓	2	16K
	Xetra		✓				✓		
Euronext	Euronext	Optiq MDG	✓	✓	✓		✓	4	16K
	Euronext Amsterdam		✓	✓	✓		✓		
	Euronext Brussels		✓	✓	✓		✓		
	Euronext Dublin		✓	✓			✓		
	Euronext Lisbon		✓	✓	✓		✓		
	Euronext London		✓	✓	✓		✓		
	Euronext Paris		✓	✓	✓		✓		
	Alternext Paris		✓	✓			✓		
Intercontinental Exchange	ICE UK LIFFE	iImpact		✓			✓	1	16K
London Metal Exchange (HKEx)	LME	OMD		✓	✓		✓	1	16K
London Stock Exchange Group	Borsa Italiana	LSE GTP	✓	✓	✓		✓	4	16K
	EuroTLX		✓	✓	✓		✓		
	FTSE		✓	✓	✓		✓		
	London Stock Exchange		✓	✓	✓		✓		
	Trade Echo		✓	✓	✓		✓		
	Turquoise		✓	✓	✓		✓		
SIX Swiss Exchange	SIX Swiss Exchange	SWX	✓				✓	1	16K

## MARKET DATA FEEDHANDLERS - ASIA PACIFIC

### Equities, Derivatives & Fixed Income Markets

PROVIDER	TRADING VENUE	PROTOCOL	EQUITIES	FUTURES	OPTIONS	FIXED INCOME	STATUS	Per FPGA card instance	
								Max Market Count	Max Symbols
Hong Kong Exchanges and Clearing	HKEx Securities	OMD-C	✓				✓	2	64k
	HKEx Derivatives	OMD-D		✓	✓		✓		
Japan Exchange Group	Osaka Exchange (OSE)	Genium Itch		✓	✓		✓	1	16K
Korea Exchange	KOSPI	Exture+	✓	✓	✓	✓	✓	2	16K
	KOSDAQ		✓				✓		
National Stock Exchange of India	NSE	MTBT	✓				✓	1	16K
Taiwan Futures Exchange	TAIFEX	RT		✓			✓	1	16K