

IV. Connectivity Fees

A. Co-Location Services

The following charges are assessed by Nasdaq MRX for co-location services: ¹

1. Cabinets

Cabinet with Power		
Description	Installation Fee	Ongoing Monthly Fee
Super High Density Cabinet (>10kW - <=17.3kW)	\$4,500***	\$8,000**
High Density Cabinet (>7kW - <10kW)	\$3,500	\$4,500**
Medium-High Density Cabinet (>5kW - <=7kW)	\$3,500	\$3,500**
Medium Density Cabinet (>2.88kW - <=5kW)	\$3,500	\$2,500**
Low Density Cabinet (<=2.88kW)	\$3,500	\$2,000**
Half Cabinet*		\$2,000
*Not available to new subscribers.		
**Discount of 15% of fee available to users of 25 or more full cabinets who commit to a 3 year term; Discount of 10% of fee available to users of 25 or more full cabinets who commit to a 2 year term.		
***Includes larger cabinet (30" W x 48" D x 96" H). Standard installation fee of \$3,500 would apply if smaller cabinet (24"W x 42"D x 84"H) is requested.		
Note: Cabinet power cap is based on the available power at 80% of the breakered capacity of all circuit pairs within a cabinet (where a primary/redundant circuit pair is considered a single circuit).		
Shared Cabinet Space		
Description	Installation Fee	Ongoing Monthly Fee
4U Block of Cabinet Space including up to 500W of power*	\$150 per hour	\$600
*No more than 2 4U Blocks. Access restricted to Nasdaq ISE personnel.		
Specialty Cabinet Charge		

Description	Ongoing Monthly Fee
Additional Charge per Cabinet for cabinet > 24"W for each 6"W increment greater than 24"W - 2x the ongoing cabinet fee if the cabinet is >=48"W	\$500 per 6" or 2x the Ongoing Cabinet fee
Multi-Firm Cabinet Charge	
Description	Ongoing Monthly Fee
Additional Charge per Cabinet per firm for each cabinet that supports a firm other than the firm contracted to receive the cabinet by Nasdaq Technology Services	\$500

2. Connectivity

External Telco /Inter-Cabinet Connectivity		
Description	Installation Fee	Ongoing Monthly Fee
Category 6 Cable patch	\$300	\$350*
DS-3 Connection	\$500	\$350*
Fiber	\$500	\$350*
POTS Line	\$0	\$50
One-Time Telco Connectivity Expedite Fee	\$1,400	\$0
Inter-Cabinet Telco connection outside Nasdaq space		\$1,000
100MB Connectivity - Metro NY/NJ Area Destination	\$1,165**	\$1,650**
1G Connectivity - Metro NY/NJ Area Destination	\$2,150**	\$2,150**
10G Connectivity - Metro NY/NJ Area Destination	\$5,000**	\$5,000**
100MB Connectivity - Toronto Area Destination	\$4,850**	\$4,100**
1G Connectivity - Toronto Area Destination	\$7,700**	\$9,850**
10G Connectivity - Toronto Area Destination	\$14,200**	\$28,400**
100MB Connectivity - Chicago Area Destination	\$3,500**	\$7,350**

External Telco /Inter-Cabinet Connectivity		
Description	Installation Fee	Ongoing Monthly Fee
1G Connectivity - Chicago Area Destination	\$4,900**	\$12,800**
10G Connectivity - Chicago Area Destination	\$10,650**	\$26,900**

* Requesting party only. Not applicable to inter-cabinet connections among the same customer.

** Includes fiber telco cross connect within the Exchange's data center.

Connectivity to Nasdaq MRX *		
Description	Installation Fee	Ongoing Monthly Fee
Fiber Connection to Nasdaq MRX (10Gb)	\$1,000	\$10,000
Fiber Connection to Nasdaq MRX (10Gb Ultra)	\$1,500	\$15,000
Fiber Connection to Nasdaq MRX (40Gb)	\$1,500	\$20,000
Fiber Connection to Nasdaq MRX (1Gb Ultra)	\$1,500	\$2,500
Fiber Connection to Nasdaq MRX (1Gb)	\$1,000	\$2,500
1Gb Copper Connection to Nasdaq MRX	\$1,000	\$2,500
* The connectivity provided under this rule also provides connectivity to the other markets of The NASDAQ Stock Market, LLC, NASDAQ BX, Inc., Nasdaq PHLX LLC, Nasdaq ISE, LLC, and Nasdaq GEMX, LLC.		

Connectivity to Third Party Services		
Description	Installation Fee	Ongoing Monthly Fee
Third Party Services Fiber Connection (10Gb Ultra)	\$1,500*	\$5,000*
Third Party Services Fiber Connection (1Gb Ultra)	\$1,500*	\$2,000*
Third Party Services Fiber Connection (1Gb Ultra or 10Gb Ultra for UTP only)	\$100*	\$100*

*Waived for two connections per client to UTP SIP feeds only (UQDF and UTDF).

Market Data Connectivity*

The following Market Data feeds are delivered to the NASDAQ OMX Data Center via a fiber optic network:

Description	Installation Fee	Ongoing Monthly Fee
Nasdaq	\$1,000	\$0
SIAC	\$1,000	
CTS/CQS		\$1,412
OpenBook Realtime		\$2,500
OpenBook Ultra		\$2,500
NYSE Alerts		\$200
NYSE Trades		\$100
Arca Trades		\$100
ArcaBook Multicast		\$1,500
Arca BBO		\$125
AMEX- Ultra/Trades/Alerts/LRP		\$100
OPRA		\$6,000
CME	\$1,000	\$3,500
Access Fee per location device/user		\$65
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BATS Multicast PITCH	\$1,000	
BATS		\$4,000
BATS Y		\$1,500
Direct Edge	\$1,000	
EDGA		\$2,500
EDGX		\$2,500

Market Data Connectivity*

The following Market Data feeds are delivered to the NASDAQ OMX Data Center via a fiber optic network:

Description	Installation Fee	Ongoing Monthly Fee
TSX/TSXV	\$1,000	
TSX and TSXV Level 1 Feed		\$300
TSX and TSXV Level 2 Feed		\$1,000
TSX Quantum Level 1 Feed		\$100
TSX Quantum Level 2 Feed		\$300

*Pricing is for connectivity only and is similar to connectivity fees imposed by other vendors. The fees are generally based on the amount of bandwidth needed to accommodate a particular feed and Nasdaq MRX is not the exclusive method to get market data connectivity. Market data fees are charged independently by Nasdaq ISE and other exchanges.

The following multicast Market Data feeds are delivered to the Exchange Data Center via a wireless network (microwave or millimeter wave):

Description	Installation Fee	Recurring Monthly Fee*
NYSE Equities (Arca Integrated)	\$5,000	\$10,000
NYSE Equities (NYSE Integrated)	\$5,000	\$10,000
BATS Multicast PITCH (BZX and BYX)	\$2,500	\$7,500
Direct EDGE Depth of Book (EDGA, EDGX)	\$2,500	\$7,500
CME Multicast Total	\$5,000	\$23,500
CME Equities Futures Data Only		\$10,000
CME Fixed Income Futures Data Only		\$10,000
CME Metals Futures Data Only		\$3,500

*Subscribers with three to five microwave or millimeter wave wireless subscriptions under Section IV.A receive a 5% discount on all such subscriptions; subscribers with six to ten microwave or millimeter wave wireless subscriptions under Section IV.A receive a 10% discount on all such subscriptions; subscribers with eleven to fourteen microwave or millimeter wave wireless subscriptions under Section IV.A receive a

15% discount on all such subscriptions; and subscribers with fifteen or more microwave or millimeter wave wireless subscriptions under Section IV.A receive a 20% discount on all such subscriptions.

3. Power

Cabinet Power		
Description	Installation Fee	Ongoing Monthly Fee
2x20 amp 110 volt	\$2,000	\$0
2x30 amp 110 volt	\$2,000	\$0
2x20 amp 208 volt	\$2,000	\$0
2x30 amp 208 volt	\$2,000	\$0
Phase 3 2x 20 amp 208 volt	\$3,000	\$0
Phase 3 2x 30 amp 208 volt	\$3,000	\$0
2x60 amp 208 volt	\$3,000	\$0
Phase 3 2x 40 amp 208 volt	\$3,000	\$0
Phase 3 2x 50 amp 208 volt	\$3,000	\$0
Phase 3 2x 60 amp 208 volt	\$3,000	\$0
2x30 amp 48 volt DC	\$3,000	\$0

4. Additional Charges/Services

Additional Items		
Description	Installation Fee	Ongoing Monthly Fee
Cooling (Door) Fans	\$1,500	\$0
Perforated Floor Tiles	\$250	\$0
Cabinet Extension	\$500	\$0
Super High Density Cabinet Kit	\$4,500	\$0

Additional Items		
Description	Installation Fee	Ongoing Monthly Fee
Additional Cabinet Shelves	\$200	\$0
Single Master Key Locks	\$175	\$0
Cable Downspouts	\$750	\$0
Cabinet Caging	Installation Specific	\$3,000
Custom Installation	Installation Specific	\$0
Cabinet Equipment Storage	\$0	\$500
Copper Patch Cords	\$4.50 +\$.50 per foot	\$0
Fiber Patch Cords - Multi-mode	\$20 +\$1.50 per meter	\$0
Fiber Patch Cords - Single-mode	\$24 +\$.75 per meter	\$0
Twinax Patch Cords	\$34 +\$10 per meter	\$0
Power Cords - 5-15P to C13 - 2 to 4 feet	\$5	\$0
Power Cords - C14 to C19 - 2 to 4 feet	\$10	\$0
Equipment Storage	\$0	\$100
Internet Bandwidth - 1Mb	\$0	\$300
Internet Bandwidth - 2Mb	\$0	\$500
Internet Bandwidth - 3Mb	\$0	\$700
Internet Bandwidth - 4Mb	\$0	\$900
Internet Bandwidth - 5Mb	\$0	\$1,100
GPS Antenna	Installation Specific	\$200
Cabinet Proximity Option Fee	\$0	\$1000 per medium or low density cabinet, or \$1500 per medium/high or high density cabinet
Services		
Description	Rate	

Power Consulting Service (billed in hourly increments)	\$250/hr plus materials if necessary
Remote Hands Service	\$150/hr

B. Direct Circuit Connection to Nasdaq MRX*

Description	Installation Fee	Ongoing Monthly Fee
Direct Circuit Connection to Nasdaq MRX (10Gb)	\$1,500	\$7,500
Direct Circuit Connection to Nasdaq MRX (supports up to 1Gb)	\$1,500	\$2,500
Direct Circuit Connection to Nasdaq MRX (1Gb Ultra)	\$1,500	\$2,500
Optional Cable Router	\$925	
Per U of Cabinet Space**		\$150

*The connectivity provided under this rule also provides connectivity to the other markets of NASDAQ BX, Inc., Nasdaq PHLX LLC, The NASDAQ Stock Market LLC, Nasdaq ISE LLC, and Nasdaq GEMX LLC.

**Fees are based on a height unit of approximately 1.75 inches high, commonly called a "U" space and a maximum power of 125 Watts per U space.

C. Direct Circuit Connection to Third Party Services

Description	Installation Fee	Ongoing Monthly Fee
Third Party Services Direct Connection (10Gb Ultra)	\$1,500*	\$5,000*
Third Party Services Direct Connection (1Gb Ultra)	\$1,500*	\$2,000*
Third Party Services Direct Connection (1Gb Ultra or 10Gb Ultra for UTP only)	\$100*	\$100*
Optional Cable Router	\$925	
Per U of Cabinet Space**		\$150

*Waived for two connections per client to UTP SIP feeds only (UQDF and UTDF).

**Fees are based on a height unit of approximately 1.75 inches high, commonly called a "U" space and a maximum power of 125 Watts per U space.

D. Point of Presence (POP) Connectivity*

Description	Installation Fee	Ongoing Monthly Fee
POP Connection to Nasdaq MRX (10Gb)	\$1,500	\$7,500
POP Connection to Nasdaq MRX (1Gb Ultra)	\$1,500	\$2,500

*The connectivity provided under this rule also provides connectivity to the other markets of NASDAQ BX, Inc., Nasdaq PHLX LLC, The NASDAQ Stock Market LLC, Nasdaq ISE LLC, and Nasdaq GEMX LLC.

I. Exchange Testing Facilities

Subscribers to the Testing Facility located in Carteret, New Jersey shall pay a fee of \$1,000 per hand-off, per month for connection to the Testing Facility. The hand-off fee includes either a 1Gb or 10Gb switch port and a cross connect to the Testing Facility. Subscribers shall also pay a one-time installation fee of \$1,000 per handoff.

The connectivity provided under this rule also provides connectivity to the other markets of NASDAQ BX, Inc., Nasdaq PHLX LLC, The NASDAQ Stock Market LLC, Nasdaq ISE LLC, and Nasdaq GEMX LLC.