



MIAX Emerald[®] Options Exchange

The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Friday, January 24, 2025**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penn y Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
AMDY	YIELDMAX AMD OPTION INCOME STRATEGY ETF	AMDY	No	NYSE Arca	4:00	Citadel Securities, LLC	1
ARDT	ARDENT HEALTH PARTNERS, INC.	ARDT	No	NYSE	4:00	Citadel Securities, LLC	1
AVGX	DEFIANCE DAILY TARGET 2X LONG AVGO ETF	AVGX	No	NASDAQ	4:00	Citadel Securities, LLC	1
BDSX	BIODESIX, INC.	BDSX	No	NASDAQ	4:00	Jane Street Options, LLC	2
BNED	BARNES & NOBLE EDUCATION, INC.	BNED	No	NYSE	4:00	IMC Financial Markets	2
GCMG	GCM GROSVENOR INC.	GCMG	No	NASDAQ	4:00	IMC Financial Markets	4
JSPR	JASPER THERAPEUTICS INC	JSPR	No	NASDAQ	4:00	Jane Street Options, LLC	5
LAES	SEALSQ CORP.	LAES	No	NASDAQ	4:00	Wolverine trading, LLC	5
LFWD	Lifeward Ltd.	LFWD	No	NASDAQ	4:00	Jane Street Options, LLC	5
LNZA	LANZATECH GLOBAL INC.	LNZA	No	NASDAQ	4:00	IMC Financial Markets	5
MBOT	MICROBOT MEDICAL INC	MBOT	No	NASDAQ	4:00	Wolverine trading, LLC	6
MURA	MURAL ONCOLOGY PLC	MURA	No	NASDAQ	4:00	Susquehanna Securities	6
NMG	NOUVEAU MONDE GRAPHITE INC	NMG	No	NYSE	4:00	Citadel Securities, LLC	6
PTF	Invesco Dorsey Wright Technology Momentum ETF	PTF	No	NASDAQ	4:00	Citadel Securities, LLC	7
PTVE	PACTIV EVERGREEN, INC.	PTVE	No	NASDAQ	4:00	Citadel Securities, LLC	7
QQQM	INVESCO NASDAQ 100 ETF	QQQM	No	NASDAQ	4:00	Citadel Securities, LLC	7
QTTB	Q32 BIO INC.	QTTB	No	NASDAQ	4:00	Susquehanna Securities	7



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QTUM	DEFIANCE QUANTUM ETF	QTUM	No	NASDAQ	4:00	Susquehanna Securities	7
SMLR	SEMLER SCIENTIFIC, INC.	SMLR	No	NASDAQ	4:00	Susquehanna Securities	8
TRVI	TREVI THERAPEUTICS, INC.	TRVI	No	NASDAQ	4:00	Susquehanna Securities	8
TSSI	TSS INC	TSSI	No	NASDAQ	4:00	Wolverine trading, LLC	8
UBRL	GRANITESHARES 2X LONG UBER DAILY ETF	UBRL	No	NASDAQ	4:00	IMC Financial Markets	9
USIO	USIO, INC.	USIO	No	NASDAQ	4:00	Wolverine trading, LLC	9
VOR	VOR BIOPHARMA, INC.	VOR	No	NASDAQ	4:00	Susquehanna Securities	9
XSHD	INVESCO S&P SMALLCAP HIGH DIV LOW VOLATILITY ETF	XSHD	No	CBOE BZX Exchange	4:00	Wolverine trading, LLC	10
YMAG	YIELDMAX MAGNIFICENT 7 FUND OF OPTION INCOME ETFS	YMAG	No	NYSE Arca	4:00	Jane Street Options, LLC	10

Please contact MIAX Emerald Options Listings with any questions at Listings@miaxglobal.com or (609) 897-7308.