

Vanguard Communication Services ETF | VOX

As of December 31, 2022

Investment approach

- Seeks to track the performance of the MSCI US Investable Market Communication Services 25/50 Index.
- Multicapitalization equity in the communication services sector.
- The fund employs a passively managed, full-replication strategy when possible.
- If regulatory constraints prevent full replication, the fund uses a sampling strategy to approximate the index's key characteristics.
- The fund remains fully invested.
- Low expenses minimize net tracking error.

About the benchmark

- The MSCI US Investable Market Communication Services 25/50 Index includes stocks of U.S. companies within the communication services sector.
- The sector is made up of companies that provide communications services primarily through fixed-line, cellular, wireless, high-bandwidth, and/or fiber-optic cable networks.
- Uses GICS methodology and clearly classified sectors.
- Offers broad representation of the target sector across large-, medium-, and small-cap companies.

Performance history

Total returns² for period ended December 31, 2022

VOX (Inception 09/23/2004)	Quarter	Year to date	1 year	3 years	5 years	10 years	Since inception
Net asset value (NAV) return ³	0.15%	-38.77%	-38.77%	-3.51%	-0.81%	3.97%	5.41%
Market price return ⁴	0.11	-38.79	-38.79	-3.50	-0.85	3.97	5.41
Communication Services Spliced Index	0.14	-38.74	-38.74	-3.45	-0.80	3.95	4.90

MSCI US Investable Market Telecommunication Services Index through February 26, 2010; MSCI US Investable Market Telecommunication Services 25/50 Index through May 2, 2018; MSCI US Investable Market Communication Services 25/50 Transition Index through December 2, 2018; MSCI US Investable Market Communication Services 25/50 Index thereafter.

The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at [vanguard.com/performance](https://www.vanguard.com/performance). The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index.

Investment Products: Not FDIC Insured • No Bank Guarantee • May Lose Value

Quick facts

Benchmark	MSCI US IMI/Communication Services 25/50
Expense ratio ¹	0.10%
Dividend schedule	Quarterly
ETF total net assets	\$2,397 million
Fund total net assets	\$2,457 million
Inception date	September 23, 2004

Trading information

Ticker symbol	VOX
CUSIP number	92204A884
IIV (intra-day ticker)	VOX.IV
Index ticker (Bloomberg)	M5USSTCI
Exchange	NYSE Arca

ETF attributes

	MSCI US IMI/Communication Services ETF	MSCI US Ion Services 25/50
Number of stocks	113	113
Median market cap	\$151.2B	\$151.2B
Price/earnings ratio	13.3x	13.3x
Price/book ratio	2.1x	2.0x
Return on equity	19.3%	19.3%
Earnings growth rate	21.1%	21.0%
Turnover rate ⁵	16.2	—
Standard deviation ⁶	23.77%	23.77%



1. As reported in the most recent prospectus. A fund's current expense ratio may be lower or higher than the figure reported in the prospectus.

2. Figures for periods of less than one year are cumulative returns. All other figures represent average annual returns. Fund performance figures assume the reinvestment of dividends and capital gains distributions; the figures are pre-tax and net of expenses. The above widely used comparative index represents unmanaged or average returns on various financial assets that can be compared with the fund's total returns for the purpose of measuring relative performance.

3. As of 4 p.m., Eastern time, when the regular trading session of the New York Stock Exchange typically closes.

4. Market price returns are calculated using the midpoint between the bid and offer prices at the time NAV is calculated, typically 4 p.m., Eastern time.

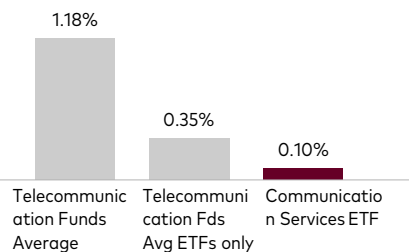
5. For most recent fiscal year. Turnover rate excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including Vanguard ETF Creation Units.

6. A measure of the volatility of a fund—based on the fund's last three years of monthly returns—used to indicate the dispersion of past returns. A higher standard deviation means a greater potential for volatility. For funds with less than 36 months of performance history, standard deviation is not calculated.

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Expense ratio comparison¹



Ten largest holdings and % of total net assets²

Alphabet Inc.	21.1%
Meta Platforms Inc.	10.6
Verizon Communications Inc.	6.4
Walt Disney Co.	6.1
Netflix Inc.	4.8
Comcast Corp.	4.7
AT&T Inc.	4.5
T-Mobile US Inc.	3.8
Activision Blizzard Inc.	2.8
Charter Communications Inc.	2.0
Top ten as % of total net assets	66.8%

Market capitalization breakdown

Large Cap	67.0%
Medium/Large Cap	0.0
Medium Cap	14.5
Medium/Small Cap	7.8
Small Cap	10.7

Subindustry diversification as % of commonstock³

Interactive Media & Services	37.0%
Movies & Entertainment	16.1
Integrated Telecommunication Services	11.9
Cable & Satellite	11.3
Interactive Home Entertainment	6.3
Wireless Telecommunication Services	4.3
Advertising	3.8
Broadcasting	3.8
Alternative Carriers	3.3
Publishing	2.2

1. Represents the expense ratio for the Vanguard ETF as reported in the most recent prospectus. There are material differences between mutual funds and ETFs. Unlike mutual funds, ETFs are priced continuously and bought and sold throughout the day in the secondary market (at a premium or discount to net asset value) with the assistance of a stockbroker, which entails paying commissions. Sources: Lipper, a Thomson Reuters Company, and Vanguard, December 31, 2021.

2. The holdings listed exclude any temporary cash investments and equity index products.

3. Sector categories are based on the Global Industry Classification Standard ("GICS"), except for the "Other" category (if applicable), which includes securities that have not been provided a GICS classification as of the effective reporting period.

Vanguard ETF® Shares are not redeemable with the issuing Fund other than in very large aggregations worth millions of dollars. Instead, investors must buy or sell Vanguard ETF Shares in the secondary market and hold those shares in a brokerage account. In doing so, the investor may incur brokerage commissions and may pay more than net asset value when buying and receive less than net asset value when selling.

All ETF products are subject to risk, which may result in the loss of principal. Sector ETF products are subject to sector risks and non-diversification risks, which may result in performance fluctuations that are more extreme than fluctuations in the overall stock market.

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