

Third Party Research Disclosure Notice

Firstrade Securities Inc. provides various outside sources for research material to customers without charge for their convenience. The news and research materials are provided by third party vendor, such as Morningstar, Zacks, Briefing.com, Benzinga, CloudQuote.io, OptionsPlay, etc.

Any recommendation, opinion or advice regarding securities or markets contained in such material does not reflect the views of Firstrade, and Firstrade does not verify any information included in such material. Firstrade assumes no responsibility for any fact, recommendation, opinion or advice contained in any such research material and expressly disclaims any responsibility for any decisions or for the suitability of any security or transaction based on it.

Any decisions that customers may make to buy, sell or hold a security based on such research will be entirely their own and not in any way deemed to be endorsed or influenced by or attributed to Firstrade. It is understood that, without exception, any order based on such research that is placed with Firstrade for execution is and will be treated as a **self-directed, unrecommended, and unsolicited order**.

Furthermore, Firstrade assumes no responsibility for the accuracy, completeness or timeliness of any such research or for updating such research, which is subject to change without notice at any time. Firstrade does not provide investment, tax or legal advice. Under no circumstance is the information contained within such third party research to be used or considered as an offer to sell or a solicitation of an offer to buy any particular investment/security.