



Breakthrough 250-Watt V-Band SATCOM HTS Gateway Uplink Power Amplifier

Comtech Xicom is the leader in the design and production of millimeter wave TWTAs. Beginning in 1997, Xicom has been manufacturing high power millimeter wave amplifiers. We have shipped thousands of Ka-band, hundreds of Q-band and are introducing a All-New 250W V-Band [47.2-54.4 GHz] power amplifier Model XTD-250QV2. V-Band is an emerging frequency of interest due to its vast spectrum availability, enabling new categories of high data rate applications.

This new 250-Watt V-Band amplifier for satellite communications (SATCOM) High-Throughput Satellite (HTS) gateway service is antenna mounted at the feed to minimize path loss. Power combining, and redundancy architectures are also available.

Industry analysts at NSR believe V-band ecosystem could generate over \$25 billion in cumulative revenue by 2030, and Xicom Technology's new TWTA amplifier model XTD-250QV2 is designed to meet this emergent market demand.

Comtech Xicom and our many partners are developing the technology that will enable future terabit per second satellite networks. We have developed a Q/V-Band amplifier with more than 4 GHz of bandwidth to enable high-throughput gateways in proximity to Ka-band remote users. We are driving the market to embrace this new band that capitalizes on available spectrum to deliver high quality and economical customer experiences."



Figure 1: XTD-250V 250W V-band HPA

Hardware, test data and additional information will be available to system integrators by visiting Comtech Xicom Technology representatives in Booth 313, at SATELLITE 2018, March 13-15, in Washington, DC.

Website info <http://xicomtech.com/applications-ka-q-v-band>

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