



Engineering the Future of Connectivity



About Us

Astrome Technologies, founded at the Indian Institute of Science in 2015, is a pioneering deep-tech company specializing in next-generation wireless and satellite communications products and solutions. The company has developed patented flat-panel antennas, fully customizable software-defined modems, and automatic beamsteering and other smart algorithms that enable resilient connectivity solutions across Ground, Space (LEO/MEO/GEO) and Ocean. Leveraging advanced millimeter-wave and phased array technologies, Astrome empowers both rural and urban broadband infrastructure with high-speed 5G backhaul and fiber-like wireless solutions using its proven E-Band radios, extending coverage quickly and cost-effectively even in challenging environments. Astrome has also developed a range of satellite communication products ranging from S-band to V/W-band to provide seamless connectivity from Space-to-ground, Ground-to-Space and Space-to-Space. With a team of 110+ employees, including 70+ highly skilled, multidisciplinary engineers from space and terrestrial backgrounds graduating from top institutions across India, Astrome combines deep technical expertise with cutting-edge innovation.

CUBEINT

Signal Intelligence from Space



ELINT/SIGINT space solution, delivering real-time intelligence through precise detection and analysis of electromagnetic emissions.

GIGAMESH

E-Band Wireless Fibre Backhaul



The world's first auto-aligned, multi-beam E-band radio with a phased array antenna, providing high-speed wireless connectivity for terrestrial use.

SPACENET

Satellite Communication Network



Software-defined E-band payload for flexible, high-speed, autonomous satellite communications.

ORBITHRU

Software-defined Customizable Modem



Flexible, software-defined satellite modem with customizable encryption and high-performance security for diverse operational requirements

ASTREAM

S and X-Band Satellite
Transceivers and Antenna



Versatile, multiband satellite transceiver and antenna solution delivering high-speed, adaptable data performance.

GIGASAT

Flat Panel Satellite Ground
Terminal



Software-driven flat-panel ground antenna for high-speed, global maritime and land-mobile connectivity.

ASTRALINK

S/V Band Inter-Satellite Links



High-throughput, secure inter-satellite links for seamless multi-orbit cross-communication.

SBaaS

Satellite Bus



High-performance, 150kg-class satellite bus with a 100kg nominal hosted payload capacity

Patented Technology

Astrome's core innovation is a patented Digital Beamforming Phased Array Antenna architecture, a first-of-its-kind solution for E-band and V/W-band, powered by proprietary digital baseband software. This technology enables automatic beam steering and precise link alignment. For terrestrial networks, this IP allows the GigaMesh radio to deploy rapidly with unmatched reliability and Self-Healing Sunflower Effect correction. Critically, the same scalable architecture is engineered for high-throughput payloads on LEO, MEO, and GEO satellites, powering inter-satellite links and ground communications, as well as multi-band flat-panel satellite ground terminals for fixed and mobility applications.

Astrome Technologies Private Limited,
10th Floor, Brigade Deccan Heights, Unit
1004-1008, Tumkur Rd, Yeshwanthpur
Industrial Area, Phase 1, Yeswanthpur,
Bengaluru, Karnataka 560022, india.

www.astrome.co | bd@astrome.co

