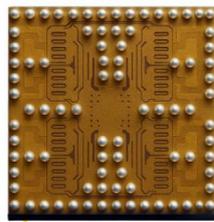




Designed for addressing the challenges of ground-based SATCOM terminals

SATCOM connects aircraft, ships, vehicles, and underserved communities with resilient broadband connectivity. Sivers' analog beamformer and RFIC portfolio enables agile, multi-beam AESA terminals that hand off seamlessly across LEO/MEO/GEO satellite networks over Ka-band — while reducing size, weight, and power.

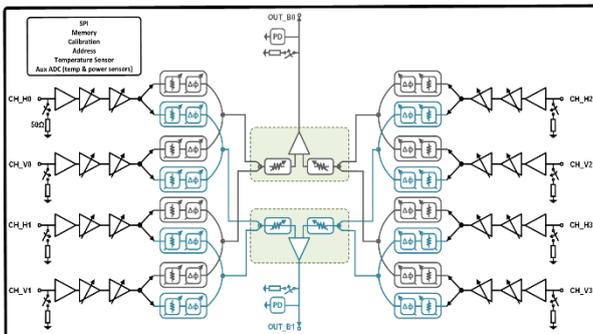


BLUEWAY1721 is an 8-channel beam-forming RX front end IC fabricated in RF-Silicon on Insulator (RF-SOI) for use in phased array antennas for SATCOM applications.

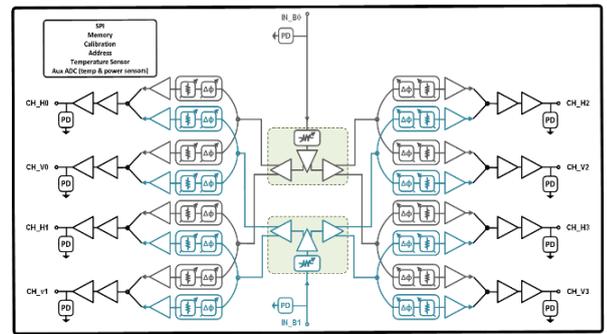
BLUEWAY 1721 offers an exceptionally low noise figure, low power, and high integration with on-chip beam table memory. This enables Blueway1721-based arrays to operate with smaller size, lower cost and support higher data rates.

STAMPEDE2731 and STAMPEDE2731LP (Low Power) are 8-channel TX beam-forming ICs fabricated in RF-Silicon on Insulator (RF-SOI) for use in Ka-band phased array antennas for SATCOM applications.

STAMPEDE2731 & LP offers exceptionally high linear output power, efficiency, and integration. This allows for lower cost, more compact, and higher data rate satellite systems.



BLUEWAY1721 Block Diagram



STAMPEDE2731 Block Diagram

Key features

- 8 channels supporting single/dual polarisation (8/4 channels per pol)
- Reconfigurable and independent two beam directions
- Ultra-low leakage in standby and low power consumption in active mode
- Exceptionally high linear output power, & efficiency
- 6-bit full-360° Phase Shifting
- Stamped Tx BFC: 27-31GHz support
- Blueway Rx RFIC: 17-21GHz support

Power supplies:

- 1V, 1.8V, 4V for Stamped2731
- 1V, 1.8V for Stamped2731LP
- 1V, 1.5V, 1.8V for Blueway1721

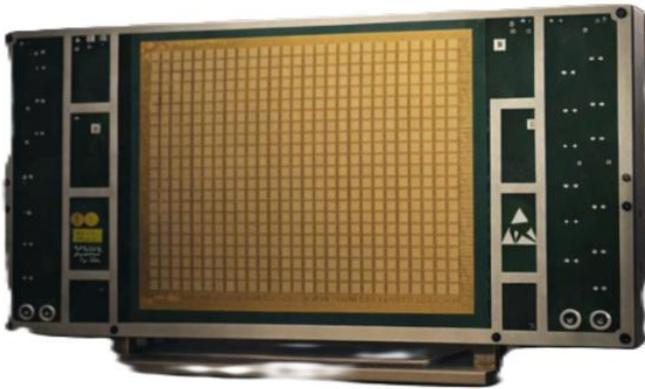
- Up to 100MHz SPI
- 1024-entry on-chip Beam Table Storage
- 8-bit chip addressing supports 1024 element dual polarization arrays

Connectorized evaluation boards for the BFCs are available which give access to all the RF ports. They require an external power supply and come with a USB-to-SPI adaptor for easy programming of the IC.

For more information please contact: sales@sivers-wireless.com



High Power SATCOM Ka-Band Transmission in a Compact Flat Panel Array

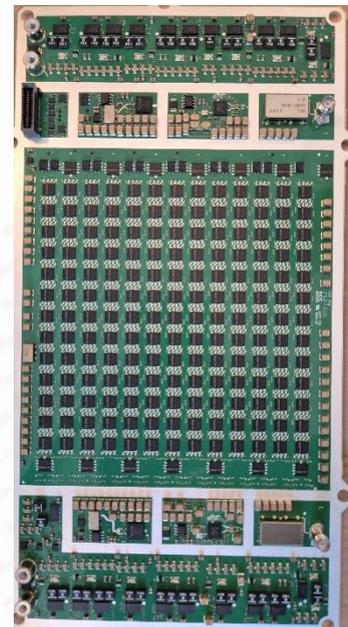


The BFM02701 (Maverick TX) is designed by Sivers to help you build the next generation of flat-panel SATCOM terminals for efficient ubiquitous connectivity.

Combining the market-leading performance of Sivers' SATCOM beamforming ICs with innovative antenna design, the BFM02701 achieves high-power and energy-efficient SATCOM transmission, precision beamforming across two simultaneous beams, and electronic polarization control, enabling strong, reliable satellite uplinks.

KEY PARAMETERS

- 676-element array supporting 53dBW EIRP in the SATCOM TX Ka-Band (27.5-31Ghz), on a 28x15cm PCB.
- Signal chain supports 2 simultaneous beams on the full array with electronic polarization control across linear and circular polarizations.
- Full in-house antenna design, customized to Sivers' beamforming ICs for the best array performance.
- Includes up-converters from IF to RF, PLL for LO generation, signal distribution ICs and power supply management from a single 12V input.
- Mates with in-house designed heat sink.
- All components controlled through SPI interface with individual addressing.



For more information, please contact: sales@sivers-wireless.com

Sivers Semiconductors AB (STO: SIVE) is a leader in SATCOM, 5G, 6G, Photonics, and Silicon Photonics that drives innovation in global communications and sensor technology. Our business units, Photonics and Wireless, supply cutting-edge, integrated chips and modules critical for high-performance gigabit wireless and optical networks. Catering to a broad spectrum of industries from telecommunication to aerospace, we fulfill the increasing demand for computational speed and AI application performance, replacing electric with optical connections for a more sustainable world. Our wireless solutions are forging paths in advanced SATCOM/5G/6G systems, while our photonics expertise is revolutionizing custom semiconductor photonic devices for optical networks and optical sensing, making us a trusted partner to Fortune 100 companies as well as emerging unicorns. With innovation at our core, Sivers Semiconductors is committed to delivering bespoke, high-performance solutions for a better-connected and safer world. Discover our passion for perfection at www.sivers-semiconductors.com.