Antenna Technologies
Stardust Antenna Terminal

• Optimized for modern LEO/MEO constellations • Hassle-free installation • Integrated RF electronics can be upgraded for future networks

Gateway terminal custom engineered to meet the demanding requirements of modern LEO and MEO satellite constellations

Available in 2.4m and 4.0m diameters, CPI's Stardust gateway antenna terminal establishes strong connections with LEO, MEO and GEO satellite constellations and delivers peak transmit and receive performance at high and extremely high frequencies.

The constellation-agnostic gateway terminal's intelligent design combines highly integrated CPI RF electronics and software-guided commissioning and calibration routines to enable rapid deployment and provide an exceptional user experience.

The CPI Stardust gateway terminal is optimized for high-volume production, and efficient, long-term operation to support current and next-generation satellite constellations.

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Speed and Ease of Deployment
The innovative design enables easy, hassle-free installation and set up in one-day and eliminates the need for costly and time-consuming field alignment.

Rugged Construction
The terminals are constructed from carbon-fiber composites, ensuring exceptional stiffness and providing reliable performance without the need of a radome.

Advanced Electronics
Leveraging CPI's extensive industry experience, the Stardust gateway terminal marries CPI's legacy of proven reliability and quality with today's state-of-the-art technologies. Stardust's embedded controller and digital beacon receiver provide robust acquisition and tracking of satellites in all orbits. The gateway terminal features fully integrated CPI RF electronics that can be upgraded for use with future networks.

Superior Performance
The terminal is designed for superior performance at Ka- and Q/V-Band. The XY-positioner design eliminates the zenith keyhole to allow for uninterrupted overhead passes. Additionally, CPI's unique, integrated anti-icing system requires significantly less power than other de-icing systems.

Suitable for Multiple Uses
CPI's Stardust gateway terminal is compliant with FCC and CE regulations. The gateway terminal can support high-throughput, next-generation satellite communications, data transfer, broadcast, radar and electronic warfare applications.

www.cpii.com/antennas

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Time to Deploy	Within one day, with minimal basic training
Frequency / Electrical Options	Ka-Band, 4-Port Circular Q/V-Band 4-Port Circular
Sidelobe Compliant with	ITU-R S.580-6, 47CFR25.209 (depending on configuration)
System Interface	CLI, SNMPv3, HTML5 web-based GUI (Ethernet TCP/IP, copper or fiber)
System Power	Single or split phase, 200-240 VAC~, 47-63 Hz
Pointing Loss (Operational Rain)	4 in/h (10 cm/h)

De-ice and radome options available.

To learn more, contact CPI Antenna Technologies at CustomerCareSAT@cpii.com or at +1 770-689-2040.

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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.