

Antenna Technologies
Advanced RF Feed Solutions

Designed to support evolving satellite communications requirements

CPI provides high-performance RF feed systems for new antenna installations and upgrades to existing reflector antennas. Our capabilities include single-band, dual-band, tri-band, quad-band, and other customized multiband configurations designed to support evolving satellite communications requirements.

Solutions for new antenna systems

For new installations, CPI feed systems can be integrated with the antenna design to optimize overall system performance. Feed configurations can be tailored to the required frequency coverage, polarization, transmit power, G/T, EIRP, tracking method and equipment interfaces.

From straightforward single-band feeds to complex multiband systems, CPI provides solutions engineered for reliable performance, manufacturability and long-term operational support.

Features:

- Single-band and multiband feed systems
- Simultaneous operation across multiple frequency bands
- Linear and circular polarization configurations
- Receive-only and transmit/receive solutions
- High-performance feed networks optimized for gain, noise temperature, insertion loss, return loss, isolation and cross-polarization performance
- Standard and extended-frequency-band designs
- Custom interfaces for prime-focus, Cassegrain, Gregorian and ring-focus antennas
- Tracking and monopulse feed configurations, when required

Upgrades and retrofits:

CPI can upgrade existing antenna systems to add frequency bands, improve RF performance, replace obsolete feed equipment, or support new operational requirements.

Retrofit services can include:

- Evaluation of the existing antenna and feed system
- RF performance analysis and compatibility assessment
- Replacement feed, feed network and interface design
- Mechanical and electrical integration
- Waveguide, coaxial, polarization and switching solutions
- Installation support, system testing and performance verification

To learn more, contact CPI Antenna Technologies at CustomerCareSAT@cpii.com

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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.

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