

Visionary Series

High Power IOT Transmitter





Whether your requirement is a single- or multi-collector IOT; air, water or water/glycol cooling; digital or analog, the Visionary Series transmitter is your high power UHF solution for today and tomorrow. By accommodating multiple tube styles from various manufacturers all in the same transmitter design, the Visionary ensures that the power amplifier will be supported for the life of the transmitter, as it can even be converted from one technology to another in the field.

The Visionary Series is already the most full featured and best engineered line of IOT transmitters available, and the addition of analog and digital high efficiency multi-collector amplifiers, with the flexibility to choose the technology and tube vendor, takes it another step beyond other transmitter offerings.

With every standard analog configuration comes a dedicated upconverter and broadband LDMOS driver amplifier for each IOT final amplifier. This design provides independent correction for each tube, optimizing performance while providing excellent redundancy and ensuring on-air reliability. For the ultimate in digital output performance, the digital exciter and companion upconverter replace the analog exciter configuration, offering the advantage of continuous linear and nonlinear adaptive precorrection.

Dual modulators or exciter/drivers with automatic switchover are also available to suit the highest redundancy requirements. Available precise frequency control, which is especially critical in adjacent channel applications, allows the exciter to be locked to any precision 10MHz standard for a ± 2 Hz frequency stability. Control and monitoring is provided through Axcera's Advanced Control System (ACS™), designed to provide straightforward control and monitoring functionality for the complete transmitter system, both locally and remotely.

a t s c ATSC MOBILE DTV READY DV3

DIGITAL READY ISO9001:2008

Visionary® Series High Power IOT Transmitter

Visionary

Proven Quality From The RF Experts

For analog broadcasting, Visionary transmitters combine over 25 years of Axcera RF design experience with proven IOT amplifier technology, resulting in a world class transmitter system.

Designed to meet the needs of the most demanding full service broadcasters, this product line is available in many configurations. Single tube air-cooled units provide up to 30kW peak visual power, while multi-tube air-cooled designs are available up to 120kW. If your preference is liquid cooling, power levels to 70kW can be achieved with a single tube, while multi-tube configurations provide up to 420kW. Additionally, our versatile design ensures that conversion of the Visionary to digital operation is very straightforward and cost effective, protecting your investment into the future.

Visionary DT

Designed To Be The Best DTV Transmitter Available

The Visionary DT benefits from Axcera's extensive digital broadcasting experience. Exceptional performance is ensured with highly stable and low noise carrier generation, along with precise digital filtering. Like the analog version, this unit is available in many configurations. Single tube air-cooled transmitters are available up to 12.5kW average power with multi-tube air-cooled units available to 50kW. Choose liquid cooling, and a single tube can provide up to 30kW average power, while the 180kW can be achieved in multi-tube configurations. Because it was designed for operation in the US and abroad, the Visionary DT is available in either 8-VSB or COFDM configurations, and can be easily converted between the two.

Supports Worldwide Analog & Digital Standards

The Visionary is designed to operate with most any digital or analog television standard, including ATSC, DVB-T/T2/H/SH, CMMB (STiMi), ISDB-T, T-DMB, and more.

ATSC Exciter-Modulator

100% Digital Signal Processing



For ATSC operation, Visionary DT transmitters include Axcera's digital television modulator, the most advanced ATSC exciter available today. This unit offers adaptive digital linear and non-linear precorrection.

Other available options include ATSC Mobile DTV, Distributed Transmission and Bandwidth Enhancement Technology (BET).

Manufacturing & Support

The Visionary Series is completely designed, built and factory tested by Axcera under strict ISO 9001:2008 control. This ensures the highest quality manufacturing practices and provides parts and service availability in a very timely fashion, keeping you on the air.

Axcera is serious about our commitment to "Total Customer Happiness." When you choose our products and systems, you will also receive our relentless commitment to your overall satisfaction. Our extensive RF capabilities and experience enable us to provide design and integration services and ongoing customer service and support that are unparalleled in the broadcast industry.

Axcera offers complete RF coverage analysis, system design and integration, installation, project management and support services directly and through our global network of integration and support partners. Our knowledgeable account managers and systems engineers will work with you to ensure that you are provided with a solution that is optimal for your needs. Our world class integration, installation and support team is well recognized in the industry for its exceptional customization capabilities and installation craftsmanship.

Our industry-leading Customer Support Group is a team of experienced field service technicians available 24/7. Our team is also available to travel to your site to quickly resolve any service issues. They are also available for routine maintenance, equipment installation, proof of performance testing and product training.

Our professional support is available by phone 1-800-215-2614 or +1 724-873-8100 or email: service@axcera.com.

At Axcera we look forward to the opportunity to demonstrate our commitment to your total happiness with our products and services.



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