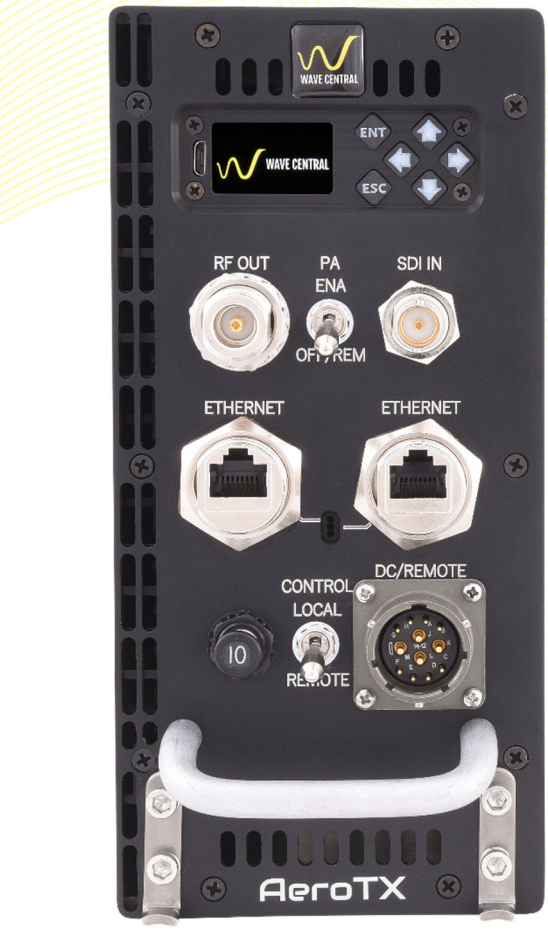




SAPPHIRE
Aero Tx
Transmission System

Airborne video is essential for broadcast and public safety operations. Wave Central enables reliable, broadcast-quality air-to-ground transmission across all environments.

The Aero Tx Transmission System is a next generation airborne data link designed for IP based workflows, enabling centralized management and seamless distribution through Wave Central's diversity receivers. It delivers reliable, broadcast-quality performance in demanding environments.

With a low-latency H.265 encoder (H.264 supported), Aero Tx delivers UHD and HD video in 10-bit 4:2:2 with HDR support. HEVC efficiency reduces bandwidth while maintaining high image quality and extending coverage. Aero Tx supports IP and 3G/12G-SDI inputs and features DO-160 compliant ARINC mounting for easy aircraft integration.

LIVE APPLICATIONS

- News Gathering
- Sports Coverage
- Event Coverage
- Public Safety

KEY FEATURES

- H.264, H.265 Encoding
- 4K Video
- ARINC Designed Mounting
- IP Streaming and Web Browser Control
- Optional DZUS Remote Control
- Integrated Control Panel
- Industry standard connectors

CONNECTORS

RF Output	N-Female 50Ω
Video/SDI Input	BNC Female 75Ω 12G/3G
Power/Serial/ Remote Control	Amphenol 12 Pin
Software Update	USB Micro-B
Streaming Services	RJ45 Gigabit Ethernet Jack
Web Browser	RJ45 Gigabit Ethernet Jack

RF

Bands	2.0 - 2.5 GHz
Step Size	250kHz
Power Output	7W

MODULATION

Modulation Type	COFDM DVB-T
Constellation	QPSK, 16 QAM, 64QAM
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/16, 1/8, 1/4
Bandwidth	6/7/8 MHz
Bit Rate Max	31.7Mbps

VIDEO

Video Coding	H.264 and H.265
H.265 4K UHD	2160p 23.98/24/25 29.97/30/50/59.94/60 HD. 4:2:2/4:2:0, 8/10-bit 720p 50/59.94/60 1080i 50/59.94/60 1080p 23.98/24/25/29.97/30/50 59.94/60
H.264	720p 50/59.94/60 1080i 50/59.94/60 1080p 23.98/24/25/29.97/30/50 59.94/60
Latency Typically	29.97/30/50/59.94/60

AUDIO

Format	Embedded
Encoder	MPEG-1 Layer 1 MPEG-1 Layer 2 AAC-LC Linear PCM

DIMENSIONS

Size (H x W x D)	7.75 x 3.75 x 14.5 inches 197 x 95 x 368 mm
Weight	6 lbs. 2721 grams

CONTROL

Local	5 Button Panel LCD Screen Toggle for Power Amplifier
Control	Fuse for power input
Remote	DZUS Mounted 5 Button Panel with LCD Screen

IP STREAMING

Format	Unicast / Multicast UDP / RTP / SRT
Bitrate	25Mb/s maximum

SYSTEM

Encryption Type	BISS BISS-E AES-128/256 (Restricted)
Internal Video Generation	Color Bars

POWER

Power Input	9-36VDC
Power Consumption	45W Approximately

ENVIRONMENT

Temperate Ambient	-10 to +50 Celsius 14 to 122 Fahrenheit
IP Rating	53°

REMOTE CONTROL

Mounting	DZUS
Dimensions (L x H x D)	5.75 x 1 x 1.75 Inches 146 x 25.5 x 44.5 mm
Power Input	Via Aero Tx 12VDC
Power Consumption	< ½ Watt
Local Control	5 Button Panel LCD Screen Toggle for PA Control

PRODUCT CODES

ARTX-2025	Aero Tx 2.0 - 2.5GHz 7 Watts Output
RMCN	DZUS mounted remote control
ARTX-INS	Aero Tx Installation Kit

OPTIONS

Test Cable	PN 923-P0001-PWC1
Licensing	4k 10bit 4:2:2
Encryption	BISS BISS-E AES 128/256

Antenna Selection Recommended by Sales Solutions