



 **ANYWAVE**



**QUARTZITE SERIES**  
PRODUCT SPECIFICATIONS

# MEDIUM POWER AIR COOLED SOLID STATE VHF TV TRANSMITTER

## Introduction

The Anywave **QUARTZITE** series of Air Cooled VHF MPTV transmitters provides the broadcaster with the latest state-of-the-art digital transmitter design. The **QUARTZITE** series delivers the highest levels of performance and reliability without costing you extra. The power capability of these forced air cooled Solid State (50V LDMOS technology) transmitters range from 1kW ATSC (800W OFDM) to 3kW ATSC (2.4kW OFDM). They operate across all modulation standards including DVB-T/H, DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T and DTMB. The **QUARTZITE** series incorporates the powerful correction capabilities of the ACT 5X+ or 9X digital exciter platforms.

## Key Facts

- ✓ Multi-standard capability: Analog, DVB-T/H, DVB-T, DVB-T2, ATSC, ATSC3.0, ISDB-T and DTMB
- ✓ Transmitter Efficiency up to 30% (amplifier efficiency > 36%)
- ✓ Broadband over VHF Band I or Band III
- ✓ Modular for better reliability and ease of maintenance
- ✓ Latest Power Amplifier LDMOS Technology
- ✓ Adaptive Linear and Non-linear correction
- ✓ Simple and Efficient Front-to-Back Air Cooling
- ✓ LCD Touch Screen Control System
- ✓ Remote control via Web Browser and SNMP

# Power Requirements / Dimensions

MPTV Series				
Standard	All <sup>(1)</sup>			
Number of Amplifiers - VHF Band III	2	3	4	5
Output Power Band I (RMS) ATSC <sup>(2)</sup>	1,100	1,600	2,400	3,000
Output Power Band I (RMS) COFDM <sup>(2)</sup>	880	1,280	1,920	2,400
Number of Amplifiers - VHF Band I	2	4	8 <sup>(3)</sup>	
Output Power Band I (RMS) ATSC <sup>(2)</sup>	1,200	2,400	4,800	
Output Power Band I (RMS) COFDM <sup>(2)</sup>	960	1,920	3,840	
Output Connector	1 5/8"			
Band	VHF Band I <sup>(3)</sup> and VHF Band III			
Height (inches / mm) Band III	59 / 1476	52 / 1666	71 / 1780	80 / 2032
Width (inches / mm) Band III	19 / 483			
Depth (inches / mm) Band III	36 / 900	40 / 1000	48 / 1200	48 / 1200
Weight (LBS / Kg)				
Height (inches / mm) Band I	59 / 1476	59 / 1476	59 / 1476	N / A
Width (inches / mm) Band I	19 / 483	38 / 966	38 / 966	N / A
Depth (inches / mm) Band I	36 / 900			N / A
Weight (LBS / Kg) - Band III	315 / 143	435 / 220	615 / 280	730 / 332
Weight (LBS / Kg) - Band I	315 / 143	555 / 252	675 / 307	N / A
AC Input Voltage	120/208VAC or 277/480VAC Three $\phi$			
AC Input Frequency	50 / 60 Hz			
Consumption - Max. - W <sup>(2)</sup>	3,930	5,740	8,570	10,700
Consumption - Typical - W <sup>(2)</sup>	4,320	6,300	9,420	11,770
Current Rating Per $\phi$ - Max. (A)	10	13	20	25

(1) Standards included ATSC, ATSC3.0, DVB-T, DVB-T2, ISDB-T, CMMB and DTMB

(2) Currents based on 120/208VAC Single Phase (Specify voltage with order)

(3) Requires two cabinets for powers above 2.4kW



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