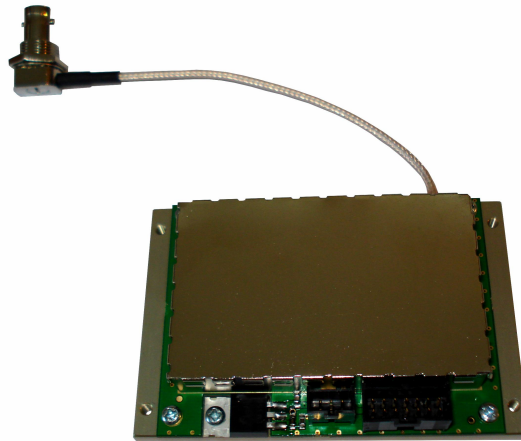


ATX Paging & Data Transmitter Modules

The ATX Series of transmitter modules are high quality, cost effective, synthesized, narrow band VHF, UHF & 900MHz products for mobile or base station operation in the paging & data markets. The products have been designed for mounting directly into a client's product with the minimum amount of fuss and number of connections.



MOUNTING

Heat sinking is provided by the integral 5mm aluminium milled base which has 4 threaded mounting holes, but for prolonged transmission it should be bolted to a larger metal back plate to give additional heat sinking.

PERFORMANCE

The ATX transmitters meet the relevant requirements of USA FCC, Canadian IC and European EN 300-224, EN 300-086 & EN 300-113 when used with suitable external control circuitry and have a frequency stability of ± 1.5 ppm over the range -30degC to +60degC as standard, or ± 1 ppm as an optional enhancement.

CONTROL INTERFACE

The ATX is designed to interface with an external microprocessor for channel change, RF power level control & transmit enable, etc. Alternatively the RF power can be adjusted by the on-board potentiometer and we can provide an optional interface board with a PIC processor to control the other parameters.

MODULATION INTERFACE

The modulation input is DC coupled with filtering for 12.5kHz, 20kHz, 25kHz or 30kHz channel spacing so it can be used with many forms of data.

TECHNICAL SPECIFICATIONS

Frequency Range:	ATX170-1 / ATX170-5	138 - 172MHz
	ATX470-1 / ATX470-5	406 - 470MHz
	ATX900-1	850 - 950MHz
	Special order:	any 20MHz sub-band within 45-900MHz
Programmable Bandwidth:	20MHz slot within the band	
RF Power:	ATXxxx-1	10mW to 750mWatt
	ATXxxx-5	50mW to 5Watts
Power Requirements:	Voltage: 9-12VDC ATXxxx-1 Current @ 500mW RF Power is 550mA ATXxxx-5 Current @ 5W RF Power is 2.4A	
Number of Channels:	Any number within the programmable bandwidth	
Min. Programmable Channel Step:	6.25 or 5kHz	
Channel Spacing:	12.5kHz, 20kHz, 25kHz or 30kHz	
Operating Temp.:	-30°C to +60°C	
Frequency Stability:	±1.5ppm over -30°C to +60°C (±1ppm Optional)	
Size:	96mm W x 64mm D x 20mm H	
Weight:	Approx 150g	
Connectors:	Interface: 7 + 7 dual in-line 0.1inch Pitch pins Antenna: Coax cable with free right angle chassis mount BNC socket, or board mounted MCA connector	
Modulation input:	DC coupled & filtered for 1V to 5V Peak to Peak	
Deviation:	Adjustable to ±7.5kHz of deviation	
TX rise time:	<6ms	
Approvals:	With suitable external circuitry, the unit is capable of meeting the following: European RF: EN 300-086 / EN 300-220 / EN 300-113 / EN 300-224 European CE: EN 301-489 USA: FCC Part 90/15 Canadian: IC	

In the interest of improvement the above specifications are subject to change without notice.

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