

Features/Benefits:

- · All electronic tuning (no mechanical adjustments)
- Same mechanical footprint and electrical interface as the current DTX-Ls (allows drop-in backwards compatibility)
- Available in 2 to 8 Watt UHF Models and 2 to 5 Watt VHF
- Supports voice or data applications
- Supports sub-audible signaling CTCSS or Digital Coded Squelch
- PC programmable via a Windows-based PC programmer
- All components placed on the top side of a single PCB for mechanical rigidity and increased protection against damage
- Solid internal ground plane for enhanced EMI shielding
- Surface acoustic wave (SAW) filter front-end for no-drift, adjustment-free filtering of interfering signals (DTX-445)
- Monolithic Gilbert cell mixer with internal negative feedback for improved RF intermodulation performance
- Ritron exclusive flex-divider PLL synthesizer allows for a wide loop bandwidth for fast transmit and receive attack times and minimal microphonics
- Audiophile-grade polypropylene capacitors in the PLL loop filter for further reduced microphonic susceptibility

Plus These Established DTX Ls Features:

- Low standby current drain facilitates long battery life in battery powered applications
- High receiver sensitivity
- Single board design for high reliability
- Ritron's made in the USA design, manufacturing, and service expertise
- FCC Narrow Band Compliant and Industry Canada approved module (board only or with enclosure), allows for easier integration into OEM applications without regulatory concerns
- Various connector/module options allow for flexibility in OEM integration

Ls Series

DTX-Ls Series Transceiver

A new embedded RF platform with enhanced performance and reliability.

- Narrow Band Compliant
- Ideal For OEM and Other Integrated Applications





FCC Certified RF Transceivers (with enclosure or as board only)

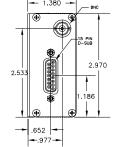
Reliable and Feature Rich.

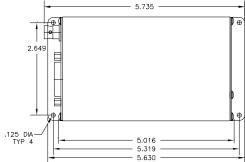
RF Transceivers, Radio Modems and Specialized Wireless Communication Equipment for OEM and Integrator Applications – Since 1977.

GENERAL SPECIFICATION	IS UHF D1	ΓX-445	VHF D	TX-145	
FCC ID:	AIERIT1		AIERIT17-145		
Industry Canada ID:	1084A-Ri		1084A-RIT17145		
FCC Rule Parts:		90			
Industry Canada Rule Parts	s:	RSS-	119		
Frequency Range: 400.6 -	416.5 [†] , 411 – 429	9 [†] , or 450 - 470 MHz	136 to	174 MHz	
RF Channels:		8 Independent TX	/RX frequencies		
Synthesizer Step:	6.25	kHz	2.5	5kHz	
Channel Spacing:		12.5k	kHz		
Frequencies unusable:		TB			
Frequency Stability:	+/-1.5 PPM (-30° to +60° C) +/-2.5 PPM (-30° to +60° C) CTCSS (Quiet Call) and DCS				
Tone/Code Signaling:					
Power Supply: Dimensions & weight:	Decord colors	9 to 17			
Dimensions & weight:	Board only version: 4.75" x 2.8" x .625" / 2.1 oz Encased version: 5.7" x 3" x 1.375" / 7.3 oz.				
Antenna Fitting:			er options available on bo	ard only version	
† pending model	DIAO IEITIAIE WILL	encased version. Othe	options available on bo	ald Offig Version.	
· pending model					
DECEIVED *C	NE Id la Wide bend	10 F Id Iz Norrow boo	id *25 kHz Wide band	10 E ki la Narroux band	
Sensitivity (12 dB SINAD):	0.25 µV	0.25 μV	.25uV	.25uV	
Adjacent channel:	-67 dB	-60 dB	-67dB	-60dB	
Spurious rejection: Image rejection:	-70 dB -75 dB	-70 dB -75 dB	-65dB -70dB	-65dB -70dB	
Image rejection:	-75 dB -67 dB	-75 dB -67 dB	-70dB -67dB	-70aB -67dB	
FM hum and noise:	-43 dB	-87 dB	-43dB	-37dB	
Conducted spurious:	-57 dBm	-57 dBm	-43dB -57dB	-57dB	
Receiver attack time (TX to F		< 10 ms	< 10 ms	< 10 ms	
Noise squelch attack time:	< 15 ms	< 15 ms	< 15 ms	< 15 ms	
(for 20 dB quieting)	V 10 1110	V 10 1110	2 10 1110	V 10 1110	
RSSI squelch attack time:	< 5 ms	< 5 ms	< 5 ms	< 5 ms	
RSSI squelch sensitivity:	PC adjustable	; factory set for -106 d	Bm		
Noise squelch sensitivity:		; factory set for -121 d	Bm		
AUX OUT frequency respor					
AUX OUT level range:	0 to 3 Volts pe		0/ TUD / 0 + 0 5 \ / \		
Audio Speaker Output:			% THD (0 to 2.5 Vrms)		
	se: de-emphasize	ed 6 dB/octave from 40			
Audio Speaker freq respons		1by: 25 mA at 12 5 \/D(
Current Drain:		dby: 25 mA at 12.5 VD0	<i>j</i>		
Current Drain:		dby: 25 mA at 12.5 VD0	j		
		dby: 25 mA at 12.5 VD0	<i>y</i>		
Current Drain:	Receive Stand	dby: 25 mA at 12.5 VD0	*15K0F3E	10K0F3E	
Current Drain: TRANSMITTER	Receive Stand *15K0F3E 2.0 Watts @ 1:	10K0F3E 2.5 VDC < .9 A	*15K0F3E 2.0 Watts @ 12	2.5 VDC < .9 A	
Current Drain: TRANSMITTER Voice Emission Designators	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1:	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A	*15K0F3E 2.0 Watts @ 12		
Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output:	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A	*15K0F3E 2.0 Watts @ 12	2.5 VDC < .9 A	
Current Drain: TRANSMITTER Voice Emission Designators	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts:	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12	2.5 VDC < .9 A 2.5VDC < .9 A	
Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output:	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: nodel - 100 % with add	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12	2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C	
Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output:	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r 8 W encased mo	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: model - 100 % with add odel - 33 % with case e	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12 ded heat sink** maintaine	2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C 25° C	
Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output:	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r 8 W encased mo 5 W encased mo	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: model - 100 % with add odel - 33 % with case e odel - 50 % with case e	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12 ded heat sink** maintaine and cap*** maintained at 2 and cap*** maintained at 2	2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C 25° C	
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Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output: Transmitter Duty Cycle: † pending model ** a heatsink can be added to the	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r 8 W encased mo 5 W encased mo (with heat sink or	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: model - 100 % with add odel - 33 % with case e odel - 50 % with case e case end cap above 2 using the two holes next to	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12 ded heat sink** maintaine and cap*** maintained at 2 and cap*** maintained at 2 5° C, degrades linearly to the RF PA shield.	2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C 25° C	
Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output: Transmitter Duty Cycle: † pending model ** a heatsink can be added to the *** case end cap refers to aluminu	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r 8 W encased mo 5 W encased mo (with heat sink or board only versions u m extrusion end cap	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: model - 100 % with add odel - 33 % with case e odel - 50 % with case e r case end cap above 2 using the two holes next to on opposite side from con	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12 ded heat sink** maintaine and cap*** maintained at 2 end cap*** maintained at 2 end cap*** maintained at 2 end cap*** the cap*** the cap*** maintained at 2 end cap*** main	2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C 25° C	
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Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output: Transmitter Duty Cycle: † pending model ** a heatsink can be added to the *** case end cap refers to aluminu Data Emissions Designator Deviation: Transmitter attack time: FM Hum and Noise: Audio Distortion:	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r 8 W encased mc 5 W encased mc (with heat sink or board only versions um extrusion end cap for external mod +/- 5.00 kHz	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: model - 100 % with add odel - 33 % with case e odel - 50 % with case e r case end cap above 2 using the two holes next to on opposite side from con lem: +/- 2.50 kHz -40 dB	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12 ded heat sink** maintaine at 2 and cap*** maintained at 2 5° C, degrades linearly to the RF PA shield. nectors. 8F1D +/- 5.00 kHz 0 ms -45 dB 5 %	2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C 25° C 25° C 0 0% at 60° C) +/- 2.50 kHz -40 dB	
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Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output: Transmitter Duty Cycle: † pending model ** a heatsink can be added to the *** case end cap refers to aluminu Data Emissions Designator Deviation: Transmitter attack time: FM Hum and Noise: Audio Distortion: Spurious and Harmonics: Aux In frequency response:	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r 8 W encased mo 5 W encased mo (with heat sink or board only versions um extrusion end cap for external mod +/- 5.00 kHz -45 dB -25 c 8 Hz to 2500	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: model - 100 % with add odel - 33 % with case e odel - 50 % with case e odel - 50 % with case e r case end cap above 2 using the two holes next to on opposite side from conn lem:	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12 ded heat sink** maintaine at 2 and cap*** maintained at 2 5° C, degrades linearly to the RF PA shield. nectors. 8F1D +/- 5.00 kHz 0 ms -45 dB 5 %	2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C 25° C 25° C 0 0% at 60° C) +/- 2.50 kHz -40 dB	
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Current Drain: TRANSMITTER Voice Emission Designator: RF Power Output: Transmitter Duty Cycle: † pending model ** a heatsink can be added to the ** a heatsink can be added to the ** a heat cap refers to aluminu Data Emissions Designator Deviation: Transmitter attack time: FM Hum and Noise: Audio Distortion: Spurious and Harmonics: Aux In frequency response: Aux In level range: Microphone freq response: Microphone level:	*15K0F3E 2.0 Watts @ 1: 8.0 Watts @ 1: 10.0 Watts @ With supply belo 8 W board only r 8 W encased mo (with heat sink or board only versions unextrusion end cap for external mod +/- 5.00 kHz -45 dB -25 d 8 Hz to 2500 0.1 to 5 V pea pre-emphasiz 25 mV rms for 2.0 Watts @ 1	10K0F3E 2.5 VDC < .9 A 2.5 VDC < 1.8 A 14 VDC < 1.8 A w 13.5 volts: model - 100 % with case e odel - 50 % with case e or case end cap above 2 using the two holes next to on opposite side from con lem: 9K8 +/- 2.50 kHz -40 dB - UBm max Hz @ +1 / -3 dB uk-to-peak ed 6 dB/octave from 30	*15K0F3E 2.0 Watts @ 12 5.0 Watts @ 12 ded heat sink** maintained at 2 and cap*** maintained at 2 25° C, degrades linearly to the RF PA shield. nectors. BF1D +/- 5.00 kHz 0 ms -45 dB 5 % -20 dE	2.5 VDC < .9 A 2.5 VDC < .9 A 2.5 VDC < .9 A d at 25° C 25° C 25° C 0 0% at 60° C) +/- 2.50 kHz -40 dB 3m max nel < .9 A	

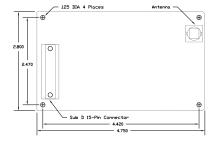
HOUSING & MOUNTING FLANGES

SINGLE BOARD TRANSCEIVER WITH





SINGLE BOARD TRANSCIEVER (Board Only)



SUB D 15-PIN CONNECTOR

The DTX-445-145 is equipped with a 15-pin sub D connector with the following functions

Sub D connector with the following functions:				
Pin #	Name	Description		
1	CS0 Channel	Select low bit		
2	CS1 Channel	Select mid bit		
3	CS2Channel	Select high bit		
4	MIC IN	Microphone Input		
5	H/L PWR	High/Low Power		
6	SUPPLY	Power Supply Input		
7	AUX IN	Auxiliary Input		
8	AUX OUT	Auxiliary Output		
9	PGN IN/OUT	Programming I/O		
10	N/A	Not Used		
11	RX MON	Monitor		
12	Audio Out	Audio PA Output		
13	DCD	Carrier Detect		
14	PTT	Push-to-Talk		
15	GND	Ground		

60 Beyond Normal Limits...™

RITRON°

ullet Wideband (25KHz) model available by special order only and where allowed by appropriate regulatory authorities.