

# specifications

GENERAL	VHF	UHF
Channel Capacity:	Trunking zone capacity: 15, Trunking talkgroup capacity: 16 Conventional channel capacity: 160	Trunking zone capacity: 15, Trunking talkgroup capacity: 16 Conventional channel capacity: 160
Power Supply:	Rechargeable battery 7.5V	Rechargeable battery 7.5V
Dimensions:		
With NIMH High Capacity Battery:	5.98 x 2.26 x 1.50 in (152 x 57.5 x 37.5mm)	5.98 x 2.26 x 1.50 in (152 x 57.5 x 37.5mm)
With IMPRES NIMH/NIMH FM Battery:	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)
With IMPRES Li-ion Battery:	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)	5.98 x 2.26 x 1.60 in (152 x 57.5 x 40mm)
Weight:		
With NIMH High Capacity Battery:	16.2 oz. (460g)	16.2 oz. (460g)
With IMPRES NIMH/NIMH FM Battery:	18.7 oz. (530g)	18.7 oz. (530g)
With IMPRES Li-ion Battery:	14.0 oz. (397g)	14.0 oz. (397g)
Average Battery Life @ 5/5/90 Duty Cycle*:	Low Power      High Power	Low Power      High Power
With NIMH High Capacity Battery:	11 hrs      8 hrs	11 hrs      8 hrs
With IMPRES NIMH Battery:	17 hrs      11 hrs	17 hrs      13 hrs
With IMPRES NIMH FM Battery:	16 hrs      10 hrs	16 hrs      13 hrs
With IMPRES Li-ion Battery:	18 hrs      11 hrs	18 hrs      14 hrs
Model Numbers:	AAH25KDN9DUBAN	AAH25RDN9DUBAN, AAH25SDN9DUBAN
FCC Description:	AZ489FT3794 (136-174 MHz) AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz)	

RECEIVER	VHF	UHF
Hum and Noise:	-45dB @ 12.5kHz/50dB @ 25kHz	-45dB @ 12.5kHz/50dB @ 25kHz
Sensitivity: (12dB SINAD) EIA:	0.25 µV typical	0.25 µV typical
Channel Spacing:	12.5/20/25kHz	12.5/20/25kHz
Intermodulation per EIA:	70dB	70dB
Adjacent Channel Selectivity:	60dB @ 12.5kHz/70dB @ 25kHz	60dB @ 12.5kHz/70dB @ 25kHz
Spurious Rejection:	70dB	70dB
Rated Audio:	0.5 W	0.5 W
Audio Distortion @ Rated Audio:	3% typical	3% typical
Audio Response: (0.3 - 3kHz)	+1 to -3dB	+1 to -3dB
Conducted Spurious Emission per FCC Part 15:	-57dBm < 1 GHz, -47dBm > 1 GHz	-57dBm < 1 GHz, -47dBm > 1 GHz

TRANSMITTER	VHF	UHF
Frequencies:	136-174 MHz	403-470, 450-512 MHz
Power Output:	1-5 W	1-4 W
Frequency Stability: (-30° C to +60° C, +25° Ref.):	±2.5 ppm	±2.5 ppm
Modulation Limiting:	+2.5 @ 12.5kHz / ±4.0kHz @ 20kHz, +5.0 @ 25kHz	+2.5 @ 12.5kHz / ±4.0kHz @ 20kHz, +5.0 @ 25kHz
Channel Spacing:	12.5/20/25kHz	12.5/20/25kHz
FM Hum & Noise:	-40dB typical	-40dB typical
Audio Response: (0.3 - 3kHz)	+1 to -3dB	+1 to -3dB
Audio Distortion:	3%	3%
Conducted/Radiated Emissions:	-66dBw	-66dBw
FM Modulation:	12.5kHz      25/30kHz 11KOF3E      16KOF3E	12.5kHz      25kHz 11KOF3E      16KOF3E

## PORTABLE MILITARY STANDARDS 810 C, D, & E

	MIL-STD 810C Method Proc/Cat	MIL-STD 810D Method Proc/Cat	MIL-STD 810E Method Proc/Cat
Low Pressure:	500.1: I	500.2: I, II	500.3: I, II
High Temp:	501.1: I, II	501.2: I, II	501.3: I, II
Low Temp:	502.1: I	502.2: I, II	502.3: I, II
Temp Shock:	503.1: I	503.2: I	503.3: I
Solar Radiation:	505.1: I	505.2: I	505.3: I
Rain:	506.1: I, II	506.2: I, II	506.3: I, II
Humidity:	507.1: II	507.2: II, III	507.3: II, III
Salt Fog:	509.1: I	509.2: I	509.3: I
Dust:	510.1: I	510.2: I	510.3: I
Vibration:	514.2: VII, VIII, X	514.3: I	514.4: I
Shock:	516.2: I, II, V	516.3: I, IV	516.4: I, IV

## Environmental Specifications

Operating Temperature:	-30 to +60° C
Storage Temperature:	-55 to +85° C
Humidity:	95% RH @ 8 Hr.
ESD:	IEC 801-2 KV
Water Intrusion:	IP54

## FACTORY MUTUAL APPROVALS

The HT Series is Factory Mutual approved and Canadian Standard Association approved as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option, and battery.



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MD-EU-HT1550XLS

## Whisler Communications

2875 R.W. JOHNSON BLVD. SW  
Olympia WA 98512  
360-352-8777

<http://www.whislercomm.com>