



- > SATURN
- > Proprietary ECCM
- > Have Quick II
- > 30 400 MHz
- > 10 W AM 15 W FM
- > External or embedded COMSEC
- > Lightweight
- > Compact and rugged
- > Vehicular version
- > GPS



- > TRA 6021:
 - Fixed Frequency, Have Quick, SATURN, etc.
- > TRA 6025:
 - Fixed Frequency, Have Quick, Proprietary ECCM, etc.
- > Manpack or vehicle-mounted configurations
- > Configuration with embedded GPS
- > Full range of ancillaries:
 - 2 Ni-Cd, Li, Li-Ion batteries
 - Whip antennas
 - Portable bag
 - Handset
 - Remote Control Unit
 - External booster
 - GPS

GENERAL CHARACTERISTICS

Frequency range		30 to 87.975 MHz 108 to 173.975 MHz 225 to 399.975 MHz
Channel spacing		25 kHz, 8.33 kHz
Frequency ac	curacy	\pm 0.5 ppm, - 30° C to + 55° C
Modulation type		AM, FM, MSK, FSK
Functions	Fixed frequency	Voice: clear / secure
	ECCM	Voice: clear / secure
		Data: point-to-point, TDMA (option)
ECCM		Have Quick I and II (Stanag 4246) *
		SATURN (Stanag 4372) *
		Fast Frequency Hopping (FFH)
COMSEC		External KY 57 / KY 99
		Proprietary embedded COMSEC
Control		Front panel
Built-in-test		Yes
Power supply		+ 24 VDC
Autonomy		14 hrs
		(1 mn Transmit, 9 mn Receive)
MTBF		4,000 hrs

PHYSICAL

Dimensions	(W x H x D)	10.56 x 3.26 x 13 inches with battery box
		268 x83 x330 mm
Weight		< 13.2 lbs (6 kg), without battery

^{*} NATO Clearance required for Non-NATO customer

ENVIRONMENT

Class	MIL-STD 810 C, D, E
Operating temperature range	- 30° C to + 55° C
Storage temperature range	- 45° C to + 70° C
Altitude	15,000 ft
Vibration, shock	MIL-STD 810 C, D, E
Humidity	93 % relative at 40° C
EMC	MIL-STD 461 C
Immersion	1 m
Sand and dust	MIL-STD 810 E

MAIN RECEIVER

Sensitivity	AM	- 103 dBm, 30 % modulation
	FM	- 113 dBm, ± 5.6 kHz deviation
	SATURN	- 103 dBm, 0.1 % BER
	FFH	- 103 dBm, 0.1 % BER
Selectivity at 6 dB	NB 1	± 3 kHz min (ATC 8.33)
	NB 2	± 10.5 kHz min (clear voice /
		NB secure voice, telegraphy, HQ)
	WB 1	± 20 kHz min (SATURN)
	WB 2	± 28 kHz min (WB secure voice,
		link 11, telegraphy, FFH)
Squelch / Adjustement	range AM	5 to 15 dB
	FM	10 to 16 dB

GUARD RECEIVER

Input		Common to main receiver
Guard frequency	VHF	121.500 MHz
	UHF	243.000 MHz
Sensitivity		-100 dBm, 30 % modulation
Selectivity at 6 dB		± 12.5 kHz min
Squelch		Independent of main receiver

TRANSMITTER

Carrier output adjustable	AW	500 mW to 10 W	
	FM	500 mW to 15 W	
Modulation characteristics			
AM - Modulation depth		≥ 80 %	
FM - Frequency deviation		up to \pm 20 kHz	
Wideband noise		< - 150 dBc / Hz	
		± 10 MHz from carrier frequency	
Self protection		VSWR, temperature	
		Power reduction (automatic)	

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THALES

THALES Communications