



- > SATURN
- > Proprietary ECCM
- > Have Quick II
- > 30 400 MHz
- > 10 W AM 15 W FM
- > External or embedded COMSEC
- > ARC 164 Form and Fit
- > 8.33 and 25 kHz channel spacing
- > Voice and data
- > Under 5 kg
- > Panel-mounted or remote controlled



- > TRA 6021:
 - Fixed Frequency, Have Quick, SATURN, etc.
- > TRA 6025:
 - Fixed Frequency, Have Quick, Proprietary ECCM, etc.
- > System integration components:
 - ECCM management system
 - IDM compatibility
- > Improved cosite operation
- > Full range of ancillaries:
 - Remote Control Unit
 - Frequency indicator
 - Agile filters / booster
 - Mounting tray (with chock absorber)
 - Multicouplers
 - External booster
 - Tuned antennas

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 accuracy		\pm 0.5 ppm, - 40° C to + 70° C
Modulation ty	/pe	AM, FM, MSK, FSK
Functions	Fixed frequency	Voice: clear / secure
		Data: L11 (L22)
	ECCM	Voice: clear / secure
		Data: point-to-point, option (TDMA, L22),
		SATURN synchronous / asynchronous data
ECCM		Have Quick I and II (Stanag 4246) *
		SATURN (Stanag 4372) *
		Fast Frequency Hopping (FFH)
COMSEC		External KY 58 - KY 100
		Proprietary embedded COMSEC
Operation		Panel-mounted or remote controlled
Remote control		MIL-STD 1553B, ARINC 429 or RS 422
Built-in-test		Yes
Power supply		+ 28 VDC, (MIL-STD-704 D)
Power consumption		
	Operating receive	50 W
	Operating transmit	150 W
MTBF		2.000 hrs

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

PHYSICAL

Dimensions	(W x H x D)	4.97 x 4.85 x 6.4 inches
		127 x 124 x 183 mm
Weight		4.3 kg

ENVIRONMENT

Class	MIL-STD 810 C, D, E
Operating temperature range	- 40° C to + 71° C
Storage temperature range	- 40° C to + 85° C
Altitude	50,000 ft
Shock/Vibration	MIL-STD 810 E
ЕМС	MIL-STD 461 C

MAIN RECEIVER

Sensitivity	AM	- 103 dBm, 30 % modulation
	FM	- 106 dBm, ± 2.4 kHz deviation
	SATURN	- 100 dBm, 0.1 % BER
	FFH	- 100 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	8 to 15 dB
	FM	13 to 16 dB

GUARD RECEIVER

Input		Common to main receiver
Channel frequency	VHF	121.500 MHz
	UHF	243.000 MHz
Sensitivity		- 95 dBm, 30 % modulation
Selectivity at 6 dB		± 12.5 kHz min
Squelch		Independent of main receiver

TRANSMITTER

Carrier output	AM	10 W
	FM	15 W
		LPI power
Modulation character	ristics	
AM - Modulati	on depth	> 80 %
	AM Tone	up to 80 %
FM - Frequenc	y deviation	up to \pm 5.6 kHz
	Distortion	5 %
Wideband noise		< - 150 dBc / Hz
		± 10 MHz from carrier frequency
Self protection		VSWR, temperature
		Power reduction (automatic)

THALES

THALES Communications