



## TRG 6030

V/UHF ECCM 19" TRANSCIVER SERIES

- > **SATURN**
- > **Proprietary ECCM**
- > **Have Quick II**
- > **100 - 400 MHz**
- > **35 W AM - 50 W FM**
- > **External or embedded COMSEC**
- > **Voice and data**
- > **8.33 and 25 kHz channel spacing**
- > **Improved cosite operation**
- > **Front panel or remote control**
- > **19" - 4U**

# TRG 6030

## DEVELOPED FOR CUSTOMIZED GROUND-TO-AIR AND SURFACE-TO-AIR COMMUNICATION NETWORK

- > TRG 6031:
  - Fixed Frequency, Have Quick, SATURN, etc.
- > TRG 6035:
  - Fixed Frequency, Have Quick, Proprietary ECCM, etc.
- > System integration components:
  - Network management terminal
  - ECCM management system
- > Full range of ancillaries:
  - Antennas
  - Multicouplers
  - Power supply
  - External booster
  - Remote Control Unit
  - PC-based control software

## GENERAL CHARACTERISTICS

<b>Frequency range</b>	<b>VHF</b>	108 to 173.975 MHz
	<b>UHF</b>	225 to 399.975 MHz
<b>Channel spacing</b>		25 kHz, 8.33 kHz
<b>Frequency accuracy</b>		± 0.5 ppm, - 25° C to + 55° C
<b>Modulation type</b>		AM, FM, MSK, FSK
<b>Functions</b>	<b>Fixed frequency</b>	Voice: clear / secure Data: L11 (L22)
	<b>ECCM</b>	Voice: clear / secure Data: point-to-point, option (TDMA, L22)
<b>ECCM</b>		Have Quick I and II (Stanag 4246) * SATURN (Stanag 4372) * Fast Frequency Hopping (FFH)
<b>COMSEC</b>		External KY 58 / KY 100 Proprietary embedded COMSEC
<b>Control an monitoring</b>		RS 422 A Serial line Front panel
<b>Built-in-test</b>		Yes
<b>Power supply</b>		115 V - 60 Hz; 230 V - 50 Hz 28 V DC (option)
<b>Power consumption</b>		
	<b>Operating receive</b>	150 W
	<b>Operating transmit</b>	600 W
<b>MTBF</b>		10,000 hrs

## PHYSICAL

<b>Dimensions</b>	<b>(W x H x D)</b>	19 x 6.96 x 19.7 inches 483 x 177 x 500 mm
<b>Weight</b>		< 66 lbs (30 kg)

\* NATO Clearance required for Non-NATO customer

## ENVIRONMENT

<b>Class</b>	MIL-STD 810 D
<b>Operating temperature range</b>	- 25° C to + 55° C
<b>Storage temperature range</b>	- 40° C to + 70° C
<b>Humidity</b>	93 % relative
<b>Vibration/Shock</b>	MIL-STD 810 D
<b>EMC</b>	MIL-STD 461 C

## MAIN RECEIVER

<b>Sensitivity</b>	<b>AM</b>	- 101 dBm, 30 % modulation
	<b>FM</b>	- 107 dBm, ± 2.4 kHz deviation
	<b>SATURN</b>	- 101 dBm, 0.1 % BER
	<b>FFH</b>	- 101 dBm, 0.1 % BER
<b>Selectivity at 6 dB</b>	<b>NB 1</b>	± 3.5 kHz min (voice 8.33)
	<b>NB 2</b>	± 11 kHz min (clear voice / NB secure voice, telegraphy AM, HQ)
	<b>WB 1</b>	± 20 kHz min (SATURN)
	<b>WB 2</b>	± 25 kHz min (WB secure voice, link 11, telegraphy FM)
	<b>WB 3</b>	± 30 kHz min (FFH)
	<b>Squelch</b>	<b>Adjustment range</b>

## TRANSMITTER

<b>Carrier output</b>	<b>AM</b>	35 W
	<b>FM</b>	50 W
	<b>Reduced power</b>	by 6 dB steps
	<b>Duty cycle</b>	up to 100 %
<b>Modulation characteristics</b>		
	<b>AM - Modulation depth</b>	> 80 %
	<b>Distortion</b>	5 %
	<b>FM - Frequency deviation</b>	up to ± 20 kHz
<b>Wideband noise</b>		< - 160 dBc / Hz ± 10 MHz from carrier frequency
<b>Self protection</b>		VSWR, temperature Power reduction (automatic)

## CONFIGURATIONS

<b>Versions</b>	Transceiver, receiver, transmitter, double receiver
<b>Options</b>	Guard receiver: 121.5 MHz 156.8 MHz (FM) 156.525 MHz (GMDSS) 243 MHz ISDN interface Integrated Front Panel Embedded Cosite filter

# THALES

THALES Communications

66, rue du Fossé Blanc - BP 156 - 92231 Gennevilliers Cedex - FRANCE

Phone: +33 (0)1 46 13 20 00 - Fax: +33 (0)1 46 13 21 63

www.thales-communications.com