



TRA 2030

VHF AIRBORNE DIGITAL TRANSCEIVER

- > **ATC VHF band (118 MHz - 137 MHz),
Extension up to 152 MHz**
- > **ICAO regulations**
- > **FM Immunity**
- > **8.33 kHz (ARINC 716) & 25 kHz channel spacing**
- > **ACARS and VDL2 Data Link (ARINC 750)**
- > **Growth capability: VDL3 & VDL4 (TDMA, STDMA)**
- > **3 MCU (3/8 ATR)**

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DEVELOPED TO MEET THE LATEST ICAO REGULATIONS

- > Fully compliant with civil aviation standards (ARINC 716 and ARINC 750)
 - 8.33 kHz channel spacing in addition to 25 kHz
 - ACARS, Mode A
 - VDL 2
- > Growth capability
 - prepared for VDL 3 and VDL 4
- > Extended performances for military applications
- > Cost-effective
 - new and refit program

GENERAL CHARACTERISTICS

Frequency range	VHF ATC (118 MHz, 137 MHz)
(option)	Extension up to 152 MHz
Channel spacing	8.33 kHz (ARINC 716), 25 kHz
Frequency accuracy	< ±5 ppm
Modulation types	AM, AM-MSK, D8PSK
Functions	Voice 8.33 kHz (ARINC 716) / 25 kHz
	Data ACARS, 2.4 kb/s (external modem)
	Mode A, 2.4 kb/s
	VDL 2 (ARINC 750), 31.5 kb/s D8PSK-CSMA
	VDL 3 (growth capability)
	VDL 4 (growth capability)
Control	ARINC 429
Built-in-test	ARINC 604 compliant
MTBF	8.000 hrs
Software Data Loader interface	RS 232

PHYSICAL

Size	3 MCU ARINC 600
Weight	4.2 kg (9.3 lbs)

ENVIRONMENT

Class	RTCA DO-160 D
Operating temperature range	-40°C to +70°C
Altitude	50.000 ft

MAIN RECEIVER

Sensitivity	AM	-101 dBm, 30% modulation
	D8PSK	-98 dBm, 0.1% BER
Selectivity	8.33 kHz	at 6 dB ± 2.8 kHz min
		Att. > 60 dB at ± 7.4 kHz
	25 kHz	at 6 dB ± 8 kHz min
		Att. > 60 dB at ± 25 kHz

TRANSMITTER

Nominal output power	16 W
Wideband noise	-160 dBc/Hz at 5 MHz
Self protection	VSWR, temperature
	Power reduction (automatic)

ANCILLARIES

Remote control	Various size
	NVIS capability
	Choice of colors
	Choice of power lighting
Mounting tray	With and without shock absorbers
VHF antenna	
Installation kit	
Maintenance test bench	

THALES

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