

VHF-VDL MULTI MODE RADIO WITH SINGLE ANTENNA ARCHITECTURE



Multi Mode Radio for GA aircraft

The RTX6040 VHF-VDL Multi Mode Radio is designed for installation in General Aviation aircrafts. To meet the basic criteria of the full range of General Aviation aircraft in terms of form, fit and function, the key parameters of the design are:

- Single VHF antenna architecture
- Low power consumption
- Small and handy dimension
- Light weight
- Ease-to-operate

Taking all these parameters into consideration, the price of the RTX6040 VHF-VDL Multi Mode Radio is highly competitive.

VHF radio

The 8.33 and 25 kHz channel spacing voice radio is ETSO-certified for IFR operations. The two-row alphanumeric and easy-to-read backlit display provides the user with information

about the active frequencies selected by the tuning knob. The current frequency and the stand-by frequency can be simultaneously displayed.

VDL digital radio link

The VDL digital radio link meets the requirements of the ICAO SARPs for VDL 4.

The ADS-B surveillance functions will be certified for non-essential use with respect to MOPS ED-108. The ADS-B of the next generation of the product will be certified for IFR operation.

The built-in GNSS receiver uses GRAS GNSS augmentation data to improve navigation, surveillance and airborne situation awareness performance in terms of accuracy, integrity, availability and continuity.

The FIS-B information service and TIS-B surveillance service are supported for CDTIs by the VIP protocol.

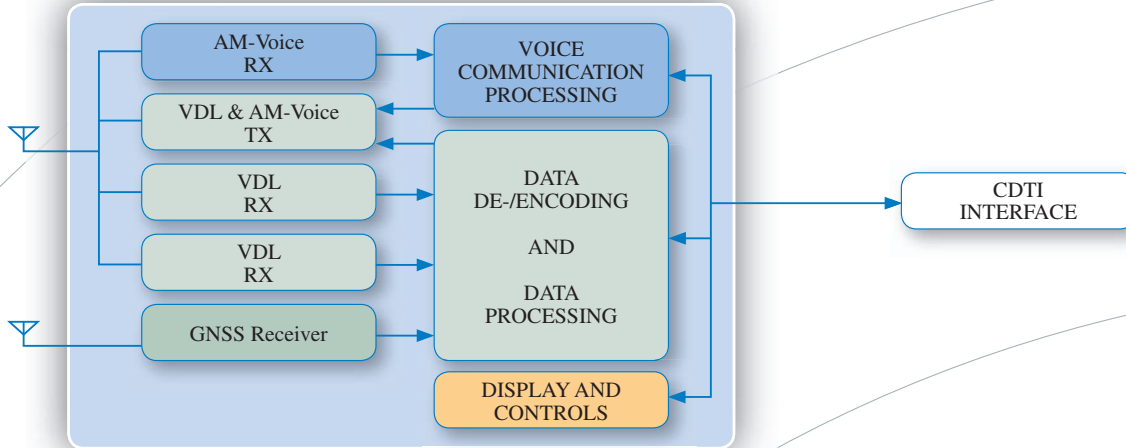
The CDTI connected to the RTX6040 can be a PDA solution or any cockpit display using VIP as the communication protocol.

Multi Mode Radio architecture

The RTX6040 radio has one AM-voice receiver and two separate VDL 4 receivers combined with one transmitter used for both the AM-voice and VDL receivers. This enables only one common VHF antenna architecture to be used.

Wide target group

With its unique design parameters, the VHF-VDL Multi Mode Radio is in particular targeted towards the Civil Aviation Administrations, VHF radio manufacturers, airline operation control companies or offered as an OEM product or design service.



Technical features:

General	
Frequency coverage	Voice: 118.000 -137.000MHz VDL-4: 108.000 - 137.000MHz
Channel spacing	8.33 and 25 kHz
Mode	AM (6K00AE3) and VDL-4
Display	Two-row alphanumeric transfective LCD display
Backlit display	Adjustable white LED
Front panel keys MENU MSG SQ COM ENT ↑ ↓	Access radio menu functionality VDL message selection Squelch Go directly to normal COM display Enter selected frequency as secondary frequency Switch between primary and secondary frequency
Front panel dials Volume/ON Freq	Turning dial: Setting of volume Pushing dial: On/Off Turning dial: Setting frequency Pushing dial: Change frequency setting range
Power supply requirement	11 - 30.3VDC or 11 - 15VDC RX squelched: < 0.7A @ 12VDC TX Voice: < 6A TX VDL4: < 5A
Temperature range	-20°C to +55°C
Dimensions	155(W) x 53(H) x 210(D) mm 611(W) x 208(H) x 827(L) in
Weight	1.355 kg 2.987 lb

Transmitter	
TX output power	Voice: 8Watt VDL-4: 2, 5, 10Watt
Stuck mike timer	Yes
Antenna	Common 50 Ω antenna for voice and VDL

Receiver	
Receive system	Double-conversion superheterodyne
Audio output power	Speaker: 5Watt @ 4 Ω load Phone: 50mWatt @ 500 Ω load
Antenna	Common 50 Ω antenna for voice and VDL

VDL-4	
Compatibility	ICAO SARP's
ADS-B	In and out
FIS-B	Via CDTI
TIS-B	Via CDTI
CDTI	CDTI interface using VIP protocol

GNSS	
Receiver channels	12
GNSS augmentation data	GNS-B (GRAS)

Certifications	
Tag	EASA Form 1
Transmitter	ETSO-2C37e, ED-14D, ED-12B level C
Receiver	ETSO-2c38e, ED-14D, ED-12B level C
MOPS	ED-23B, ED-108

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