

TEKK

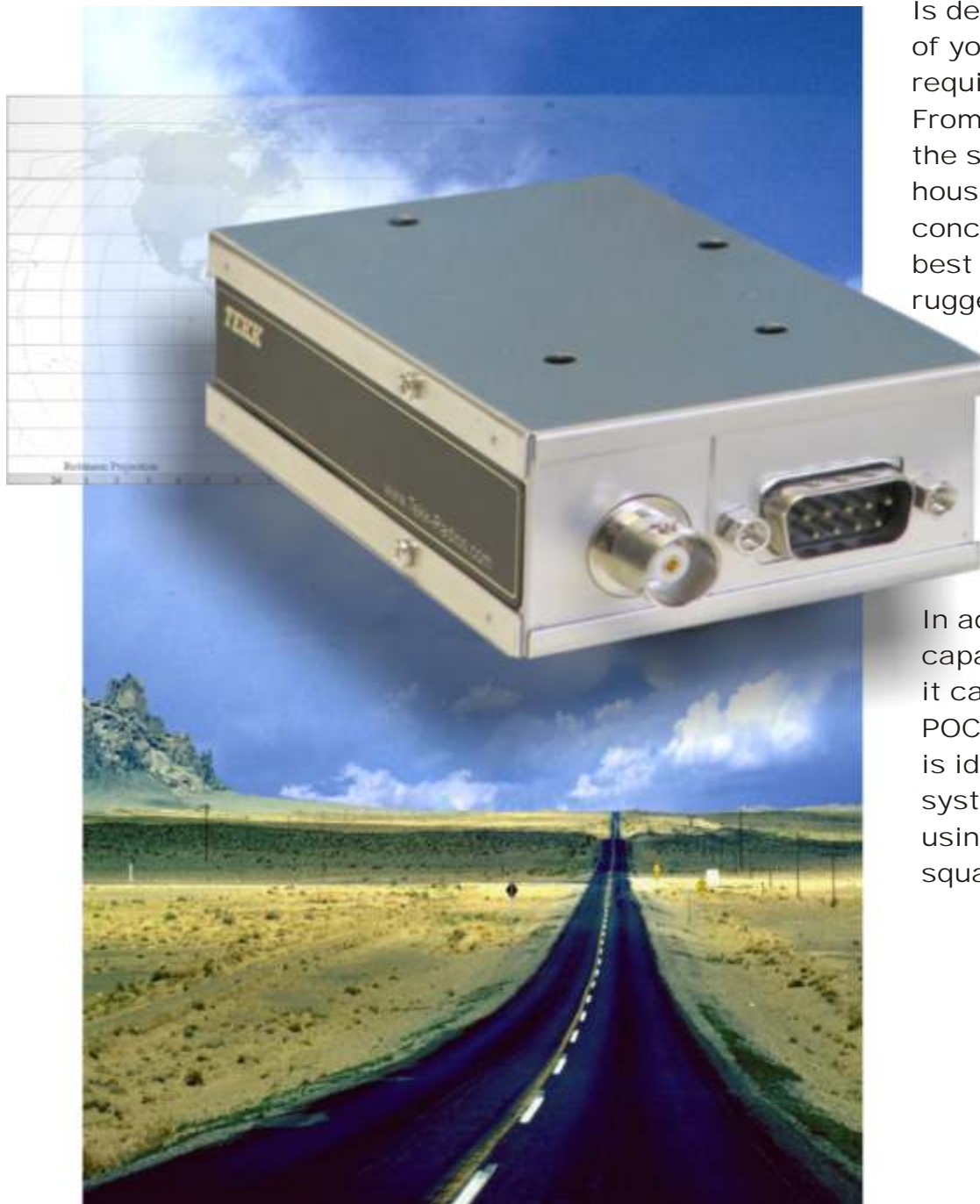
Incorporated
Professional Communications

SDU-2000

UHF 2 - 5 Watt Data Radio

The SDU-2000 transceiver is designed to handle all of your telemetry requirements.

From the fast PLL lock time to the stainless steel housing this unit has been conceived to combine the best cost efficiency with rugged reliability.



In addition to the other capabilities of the SDU-2000, it can also handle the POCSAG paging format and is ideal for in-house paging systems or alarm systems using this or similar square-wave data encoding.

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SDU-2000

High Quality, High Speed UHF Transceiver

General Specifications

Approvals	FCC and Industry Canada
Dimensions	99 x 60 x 28 mm
Weight	8 oz (210 grams)
Frequency range	445-475 MHz with VCO tuning* 380-515 Mhz with parts change *Useable Bandwidth w/o tuning is +/- 5 Mhz
Channels	2 Channels
Operating Temp	-30 ~ +60 C
Frequency Stability	+/- 2.5 ppm
Input voltage	7.5 Volts ~ 14 Volts
Channel Steps	6.25 or 12.5 Khz, programmable
RF connector	BNC, 50 Ohms
Interface Connector	9-Pin Male Dsub

Receiver Specifications

Current Drain	<60mA
Sensitivity	0.30uV @ 12 dB SINAD
Carrier Detect	-120~-80dBm, adjustable
Switching time	<10mS @ 0.35uV
Selectivity	60dB @ 25KHz, 55dB @ 12.5 Khz
Intermodulation	60dB
Spurious	60dB
Hum & Noise	-40dB
Audio Distortion	<3% @ 1 Khz @ 60% deviation
Audio Response	300Hz ~ 3KHz +1dB / -3dB @ 1KHz @ 60% deviation
Audio Output	250mV rms or better @ 1KHz
Release Time	<20 mSec from TX to RX, voice or data

Transmitter Specifications

Output Power	2 or 5 Watts
Operating Voltage	7.2 ~ 13.8 Volts
Current Drain	750mA to 1.4 Amps depending on power setting
Transmitt Duty	50% at 2 watts
Deviation	According to FCC regulations
Audio Distortion	<5% @ 1 Khz @ 60% deviation
Hum & Noise	-40 dB
Spurs & Harmonics	-60 dB
Attack Time	<20 mSec from RX to TX, voice or data