

CDG2000DX-SRC by IK4AUY-I4FAF Sergio & Romano Cartoceti - ITALY. This our best homebrew high technology HF transceiver ever built for HF DX or Contest operations very simple to use also for casual activity.

Original CDG2000 project, by G3SBI, G3OGQ, G8KBB, basic highlights shared with our CDG2000DX-SRC	Our CDG2000DX-SRC version with improvements highlights, by IK4AUY & I4FAF, empowerments for Contest and DX activity
<ul style="list-style-type: none"> • H-Mode type RF Mixer with very high 3rd Order Intercept Point around +40dBm. • same front-end with Lodestone Pacific coil kit in each input band-pass filters to preserve the H-Mode high IP3 capability • wide dynamic range IF-AGC variable amplifier with an useful 110 dB AGC range with a displayed total error of only 1 dB in S unit or dBm • DDS-PLL local oscillator design with divided output for a low phase noise design to preserve the RX high dynamic range • no RX antenna and no post-mixer amplifier before the first IF crystal filter to achieve the high IP3 design goal yielding yet an -130 dBm MDS • narrow BW crystal IF pb filters for each mode, SSB or CW, by INRAD, in the first IF at 9MHz. • simple but natural analogue sound with a passive doubly balanced diode RX product detector with an high power low distorsion 4-8 Ohm audio output. 	<ul style="list-style-type: none"> • eliminated some mistakes in original CDG2000 boards and incorporates most of OZ group (OZ3QY, OZ9FW and others) suggested improvements • improved inband IF and audio IMD behaviour with excellent crisp clear audio • added RX CW 700Hz BFO • incorporates our rugged powerful 200 watts RF push-pull mosfets finals at 45V – 9A improved bias control, VSWR protected and low noise fan • 5-100 W or 5-200 W power output range to easily match linear amplifiers input power levels, continuously variable • 7th order Chebyshev and 50 Ohm input terminated low pass filters for TX output with at least -60 dB harmonics attenuation • RF power output/main RX antenna changeover relay is a very fast vacuum Jennings or Kilovac • Separate RX antenna only • heavy duty separate shielded analogue power supply, 45V – 10A, with a dedicated transformer for services supply, air cooled with low noise fan. • equipped with an SGC ADSP² audio dsp with NR, auto notch • outboard CMOS4 keyer by "Idiompres" provides improved CW Keyer control