

## INTRODUCTION

### ELETTRONIKA TXUD500 500 WATT DTV TRANSMITTER

Elettronika SRL has designed, built, and tested a 500 watt DTV transmitter with model number TXUD500. The transmitter consists of a baseband input processor that accepts a transport stream, a modulator that converts the transport stream to an on-channel 8 VSB RF signal, power amplifier that amplifies the DTV signal to 500 watts, power supply that provides DC power to the RF power amplifier, RF mask filter that prevents interference to other services, and AC distribution/control system that energizes and controls the transmitter.