

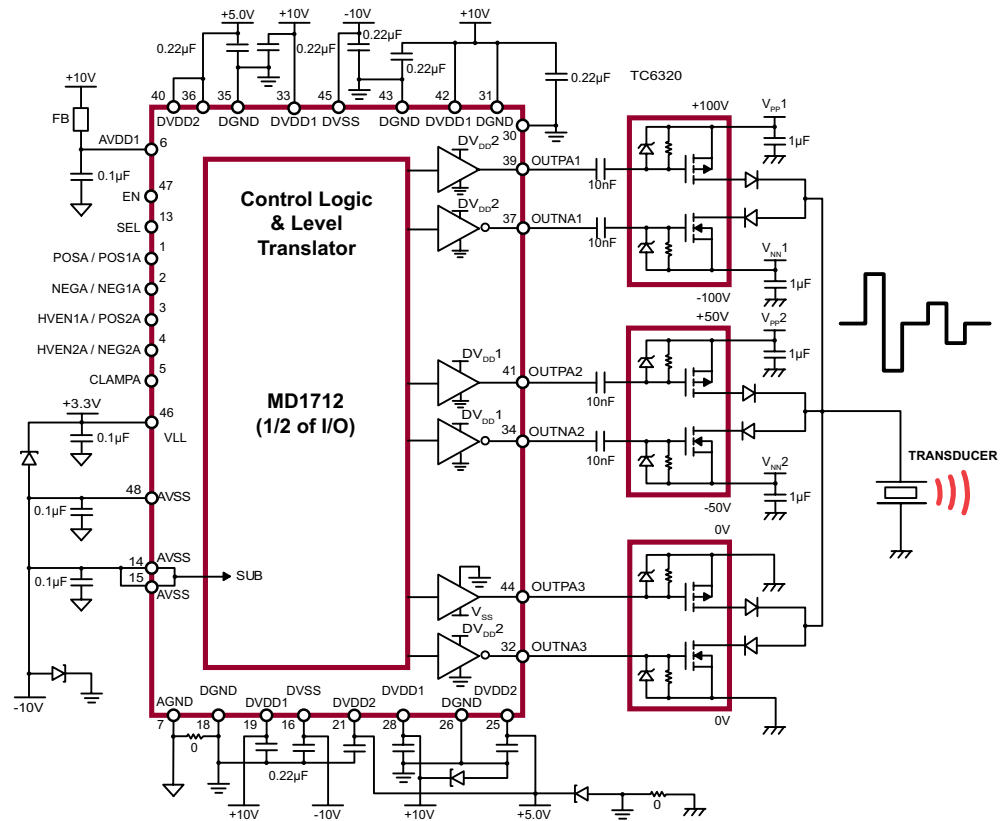
# Product Summary Sheet

MD1712

## High Speed, Integrated Ultrasound Driver IC

### Applications:

- ▶ Medical ultrasound imaging
- ▶ Piezoelectric transducer drivers
- ▶ Non-Destructive Testing (NDT)
- ▶ Metal flaw detection
- ▶ Sonar transmitter



Typical Application Circuit



48-Lead QFN (K6)

### Product Overview:

The Supertex MD1712 is a two-channel, five-level, high voltage and high speed transmitter driver IC. It is designed for medical ultrasound imaging applications, but can also be used for metal flaw detection, Non-Destructive Testing (NDT), and for driving piezoelectric transducers.

The MD1712 is a two-channel logic controller circuit with low impedance MOSFET gate drivers. There are two sets of control logic inputs, one for channel A and one for channel B. Each channel consists of three pairs of MOSFET gate drivers. These drivers are designed to match the drive requirements of the Supertex TC6320. The MD1712 drives six TC6320s. Each pair consists of an N-channel and a P-channel MOSFET. They are designed to have the same impedance and can provide peak currents of over 2.0 amps.

Features:	Benefits:
Generates five-level waveform	PW, CW, and Color Doppler
Drives two ultrasound transducer channels	Save PCB spacing
Matched delay times	Accurate beam focusing
±2.0A source and sink peak current	Minimizes rise and fall times for better imaging
Up to 20MHz output frequency	High resolution imaging
Two separate gate drive voltages	Low power consumption
1.8 to 3.3V CMOS logic interface	Flexible DSP logic interface

**Supertex inc.**



011812

## High Speed, Integrated Ultrasound Driver IC

### Ordering Information / Availability

Part Number	Package Option	Samples	Lead Time
MD1712K6-G	48-Lead QFN (Green)	Now	6-8 Weeks ARO

-G indicates the part is RoHS compliant (Green).



### Product Contact

For any questions regarding the MD1712, please contact your local area Supertex sales office, or contact the main office in the US at:

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