

GUZIK PRODUCT BULLETIN

UNIVERSAL PREAMPLIFIER 10



- **Two independent write channels with more than 8 Gbit/sec data speed**
- **DC to 4 GHz read-channel bandwidth**
- **Works with Guzik MR7 amplifier and commercial amplifiers**

Universal Preamplifier 10 (UP10) is designed for high-speed operation with Guzik RWA 2000 series. UP10 allows the RWA2000 series to achieve the maximum data rate 4 Gbit/sec and beyond. UP10 will support the future generations of test equipment and head amplifiers with higher data rates.

Together with MR7 amplifier, UP10 provides the possibility to write high-frequency signals with programmable overshoot. The width and the amplitude of overshoot can be adjusted in order to keep the write current at the MR7 output between 0 mA and 100 mA. The overshoot width can be set within the range from 150 psec to 900 psec.

The bandwidth of read channel extends from DC to 4 GHz. Using UP10 together with the MR7 amplifier allows for reading the perpendicular recording signals without losing DC components.

Universal Preamplifier 10 Specifications:

Write Channel

- More than 8 Gbit/sec data speed
- Two independent write channels
- 40 psec rise/fall time of write data
- Dedicated write data outputs for Guzik MR7 amplifier
- Positive CML write data outputs for commercial head amplifiers

Read Channel

- **Bandwidth: DC to 4 GHz at -3 dB**
Flatness ± 0.2 dB up to 2 GHz
Group delay flatness ± 50 psec up to 4 GHz
- **Nominal output level: 250 mV single ended, 50 Ohm termination**
- **Typical Non-Linear Distortion: better than 1% at 2.5 GHz (250 mV output level)**



2443 Wyandotte Street
Mountain View, CA 94043
Phone: (650) 625-8000
Fax: (650) 625-9325
E-mail: sales@guzik.com
<http://www.guzik.com/>