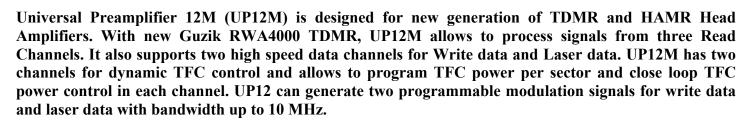
# GUZIK PRODUCT BULLETIN

## UNIVERSAL PREAMPLIFIER 12M

- Write channel with data speed up to 8 Gbit/sec
- Laser channel with data speed up to 8 Gbit/sec
- Three read channels with 100 kHz to
  3.5 GHz bandwidth
- Two channels dynamic TFC control
- Write data and laser data modulation signals with bandwidth up to 10 MHz



### Universal Preamplifier 12M Specifications:

#### Write Channel & Laser channel

- Up to 8 Gbit/sec data speed
- 30 ps rise/fall time of write data (20-80%, typical)
- Positive +2.5V CML data outputs

#### **TFC Control**

- Dual channels TFC Control
- Maximum TFC Voltage: 4. 5V
- Fully programmable dynamic TFC Control with possibility to program power on each sector
- Close loop TFC power control
- Bandwidth: DC to 10MHz
- 12 bit resolution

#### **Head Amplifier control**

• Real time control per sector

#### 16 Mb SRAM Memory

 To store settings for real-time control of TFC, Headamplifier registers, Write current, and Laser modulation

#### Read Channel

- Bandwidth: 100kHz to 3.5 GHz at -3 dB
- Flatness:  $\pm 0.2$  dB to 1 GHz,  $\pm 0.3$  dB to 2 GHz
- Output: Differential Nominal output level: 250 mV (SE, 50 Ohm termination)
- Typical Non-Linear Distortion: better than 1% (250 mV output level), full bandwidth
- Amplification 7 dB

#### Write & Laser current Modulation signals

- Max amplitude: 2 V p/p
- Output impedance: 2.5 Ohm
- Bandwidth: DC to 10MHz
- 12 bit resolution

#### **Software Requirements**

• WITE32 ver 4.50 or higher



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