

DT5490

Desktop +85 V/10 mA Digital Controlled SiPM Power Supply with USB



Features



- 20÷85 V (10 mA) output range
- Suitable for large SiPM matrix
- LEMO 00 output connector
- Very low ripple (<0.2 mVpp typical)
- High resolution on voltage and current monitor
- Built-in Temperature Compensation with programmable coefficients
- 3.5mm audio socket for temperature probe input
- Software support: ZEUS GUI
- Open-source **C library** for I2C interfacing of multiple devices available on [GitHub repository](#).
- Python Library available on [GitHub repository](#).

Description

The **DT5490** is a high voltage regulator specifically designed for SiPM bias. It has a built in temperature compensation controller with programmable coefficient (3.5mm audio socket for temperature probe input).

The unit can provide up to 10 mA and the output voltage could be regulated between 20V and 85V with a resolution of 1mV on a LEMO 00 connector. Moreover, the ZEUS control software is provided for free; ZEUS allows to monitor and control multiple modules at same time.

Zeus Software

ZEUS is a Windows compatible software that allows to control multiple DT5490 modules using USB connection. The software is based on a user friendly GUI that allows the parameters configuration and the data logging on file. It integrates real-time plot capabilities (voltage, current and temperature) with the possibility to superimpose measurements from several modules. ZEUS software is the simplest way to program temperature LUT compensation.

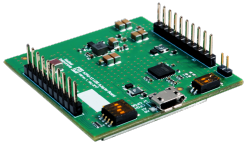
Developed in collaboration with Nuclear Instruments.

Ordering Options

Code	Description
WDT5490XAAA	DT5490 - Desktop 75 V/50 mA Digital Controlled SiPM Power Supply with USB/Ethernet RoHS

Related Products

A7585D/DU



1 Ch. 85 V/10 mA Digital Controlled SiPM Power Supply (with USB) - PCB Mount

DT5485P/PB



Desktop +85 V/10 mA Digital Controlled SiPM Power Supply with USB

A7590D



1 Ch. 80 V/50 mA Floating Digital Controlled SiPM Power Supply - PCB Mount



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