

DIGITAL MULTI CHANNEL ANALYZER

MCA527_{MICROE / MICROE+}



DESCRIPTION

The MCA527microE / microE+ is a very small and ultra low power consuming multichannel analyzer module designed for direct integration into a detector housing. It is intended for use in NaI- and CdZnTe- detectors but it may be also usable for other applications such as neutron counters or CsI detectors. In conjunction with a preamplifier and a high voltage power supply it is possible to create an ultra compact spectrometer. The microE+ Version is able to operate with up to 16k channel resolution for HPGE detector applications and extra operation modes.

Two basic interfaces are provided by the module for host communication, UART and RMII. The UART may be used for serial interfaces like USB and RS232, while RMII enables 10/100 Ethernet communication. A large set of different interface and power supply lines makes it possible to attach additional functions, like GPS receivers, sensors or microcontrollers. Kindly refer to our internet site for the extended datasheet.

The application programs from our MCA software family are free of charge and allow operating the device as a general purpose multi channel analyzer, multi channel scaler, universal counter or oscilloscope.



KEY FEATURES	BENEFITS
<i>Cost-effective high integrated design</i>	<ul style="list-style-type: none">• Offers outstanding price-performance ratio and ultra low power consumption of 0.4W
<i>Up to 4k / 16k channel resolution (microE+)</i>	<ul style="list-style-type: none">• Best performance with NaI, CdZnTe, LaBr / HPGE detectors
<i>Equipped with useful Interface- and power supplies</i>	<ul style="list-style-type: none">• Development of additional applications like GPS-receivers, sensors or microcontrollers possible
<i>Dimensions in ultra small format (45x 20x 5mm)</i>	<ul style="list-style-type: none">• Realization of ultra small spectrometer• Direct integration in detector housings possible
<i>Designed to interconnect with our Add-on PCB's</i>	<ul style="list-style-type: none">• Easy and suitably expandable

