

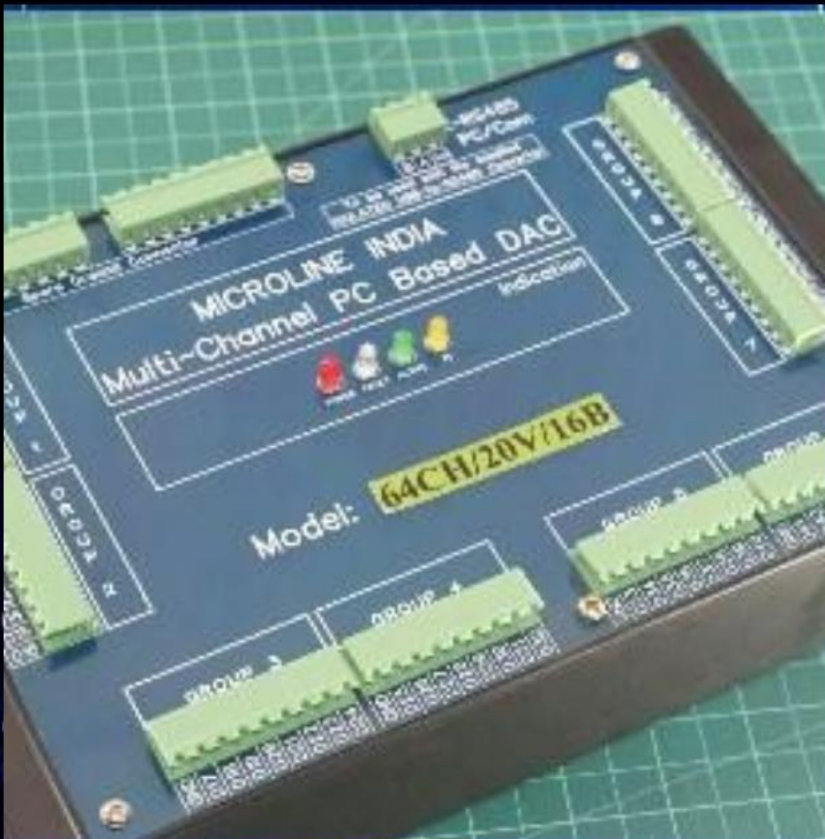


PC CONTROLLED DIGITAL
To
ANALOG CONVERTER

MICROLINE
INDIA

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Microline India proudly presents multichannel, PC controlled Digital to Analog converter. Developed in-house it uses high quality components and provide an excellent price to performance ratio



It features 64 channels of output in the range of 0 to 20 volts or -10 to +10 volts in 16 bit resolution. The output channels can drive up to 20ma each. Other voltage ranges and current ranges can be customised as per requirement.

The Integral Non Linearity is ± 1 LSB maximum at 16-bit resolution. The Total Unadjusted Error is less than $\pm 0.1\%$ of Full Scale Range. Highly accurate temperature compensated reference voltage ensures stable operation and specified monotonic operation.

All the outputs are reset during power on ensuring stable known state.

Outputs are grouped in Eight by Eight 5.08mm pitched pluggable screw terminals for easy hot swappable connection.

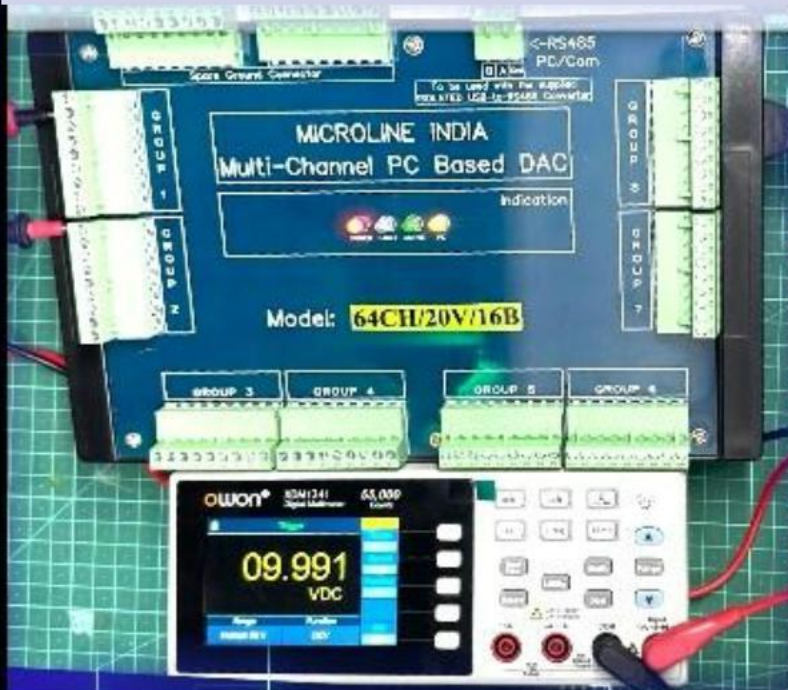
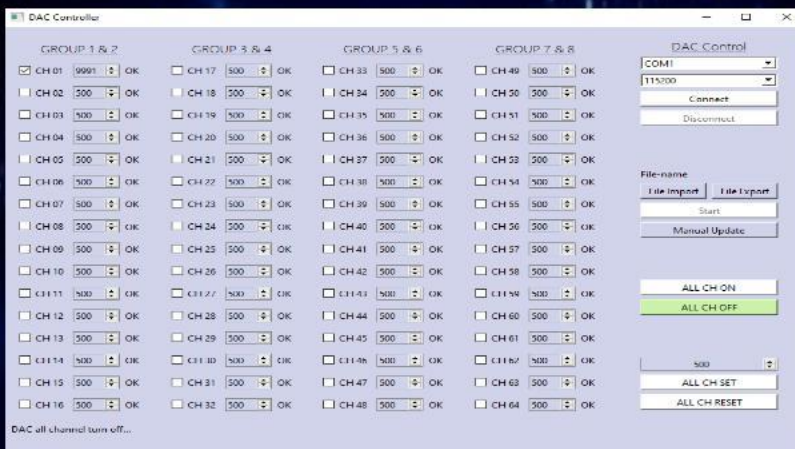


Each group have a dedicated ground pin. There is also provision for spare ground terminals should the user require it.

Operational and PC communication status are indicated by onboard led. TVS diodes at the output protect the DAC from inductive voltage spikes that can occur on long wires. Thermal overload due to DAC short circuit is sensed using internal temperature indicators and shuts down the system to prevent permanent damage.



PC Control is achieved via a simple software interface and data is exchanged via an isolated RS485 port. The isolation makes sure that EMI and Interference from the PC side is not mitigated into the DAC circuitry. It also solves ground return problems.



Technical Specification: -

PARAMETER	RATING
Output type	Voltage
Output Range	0 to 20 volts or -10 to +10 volts
Maximum Power Consumption (Watt)	800W
O/P Channels ***	64***
O/P Channels separately addressable	64
Control Interface Capabilities	RS-485 interface & MATLAB
Address Range	1 to 64 using PC software
Maximum Output Current per Channel	20 mA
Output Short circuit protection	Available
Output Connector	5.08 mm pitched pluggable screw terminals
Interface Capabilities	Isolated RS485 port

*** We can change or add various features according to the customer's requirement, the number of channels can be expanded from 50 to 1024.

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