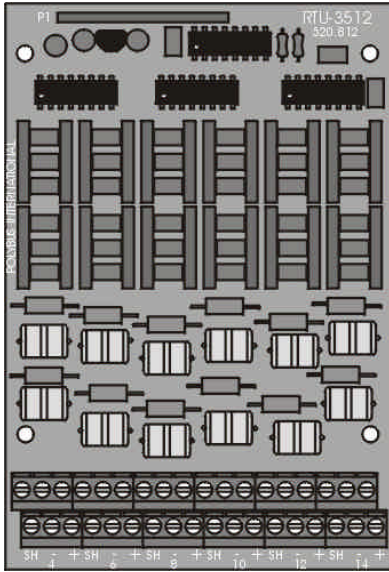


## RTU3512

12 Channels analog expansion module



### Features

- Twelve analog input channels
- RTU-A235 form factor
- Low leakage differential CMOS multiplexers
- Low pass filter/transient protection
- Pin sockets for installing user selectable resistors
- Pin sockets for optional gas tubes

The RTU3512 is a 12 channel analog input expansion module compatible with the RTU-8635 analog expansion ports. The 3512 incorporates a three pole balanced low pass filter for high rejection. The CMOS multiplexers have intrinsic voltage overload immunity that is increased by closely matched series resistors. Shields are terminated to local earth. Options include 350V gas tubes and 20mA loop resistors. Gas tubes provide high energy protection and 20mA loop resistors convert current to a compatible 0 to 5V input. The 3512 mounting is identical to the RTU-A235.

### Specifications

#### RTU-3512 Characteristics

Analog Inputs:	12 non-isolated.
Step response:	2.5 sec. max.
CM Voltage(<60Hz):	+/- 12V.
Overvoltage:	120V @ 60Hz.
NM Rejection(60Hz):	60dB.
CH/CH Isolation(<60Hz):	+/- 12V.
CH/CH Rejection(<60Hz):	60dB min.
Operating Temperature:	-20C to +70C.

#### Options

Gas Tubes:	350 Volt.
20mA Resistor:	.1% / 25ppm.

#### RTU-8635 Characteristics

Input Range:	+/- 5.12 F.S., 125mV LSB.
Input Impedance:	100 MEGOhm.
Resolution:	12 bits plus sign.
Rejection(<60Hz):	75dB.
Non-linearity:	+/- 0.05% of F.S.
Autocalibration:	Span, offset, and temp. drift.
Accuracy with 1K Ohm source or less:	+25C +/-0.15% of F.S. -20C - 70C +/-0.25% of F.S.

### Ordering Information

RTU3512	12 Channel analog input expansion module.
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#### Assembly Options

-G	350V Gas Tubes.
-LR	20mA Loop Resistor.
-DTB	12 AWG fixed dual-row TB.
-DPTB	12 AWG dual-row pull-apart TB.