



## SAAUSB

Model 002

The SAAUSB adapter is an SAA interface device that is used to connect SAAF, SAAScan, SAAX1000 with a 4-pin circular connector (or 5-pin terminal block) through to the USB port of a PC running the SAAREcorder software application. It is designed for indoor use in short term applications. For long term applications, use either the, SAAFPU, SAA232 or SAA232-5 interfaces.

Power is supplied to the SAAUSB using the provided 12 V power supply which connects to mains power. A USB port driver required to operate the SAAUSB is included in the SAAREcorder software application.

In addition to providing communications between the SAA and PC, the SAAUSB limits the SAA power consumption by only applying power to the SAA when the software requests data. It incorporates a resettable fuse, surge protection, and galvanic isolation between the SAA and PC. An internal DC-to-DC converter conditions and boosts the supply voltage to the SAA. Depending on the length of the SAA cable and ShapeArray itself a higher drive voltage can be selected by the software if required.

The SAAUSB must be grounded to minimize the risk of damage by voltage transients associated with power surges and lightning induced transients. Earth grounding is required to form a complete circuit for voltage clamping devices internal to the SAAUSB.

Related products: SAAF, SAAScan, SAAX1000, SAA232-5

# SPECIFICATIONS



DIMENSIONS (LXWXH)	123mm x 54mm x 23mm
WEIGHT	0.8 kg (including AC adapter)
SAA CONNECTION	4-pin circular Eco Mate™ C016 series connector (C016 20G003 100 12) 5-pin removable terminal block
COMPUTER CONNECTION	USB-A plug with red LED (PC data request) and green LED (SAA data)
LED INDICATORS	Red: 12V Input Power On Green: SAA Connected and Operating
POWER	12 V DC at 2A min, DC jack 2.1 mm I.D. (5.5 mm O.D.) centre positive, universal input AC adapter supplied System Ground Terminal
POWER CONSUMPTION	4 mA idle, 60 mA operating
OUTPUT POWER	13.5V nominal, 16.5V boosted
OPERATING TEMPERATURE	-40°C to 80°C
ENVIRONMENTAL	Indoor

N.B. The SAAUSB must be grounded to minimize the risk of damage by voltage transients associated with power surges and lightning induced transients. Earth grounding is required to form a complete circuit for voltage clamping devices internal to the SAAUSB. Use a 1.9 mm<sup>2</sup> (14AWG) or larger ground wire connected between the earth ground terminal and a nearby ground point.