

Radcap Tuner

AM & FM RADIO CAPTURE CARDS

DESCRIPTION

The Radcap is a radio capture card designed for simultaneous recording of multiple radio stations. The frequency of each individual station may be set in software and its audio appears as a standard Windows audio input device.

AVAILABLE IN TWO MODELS

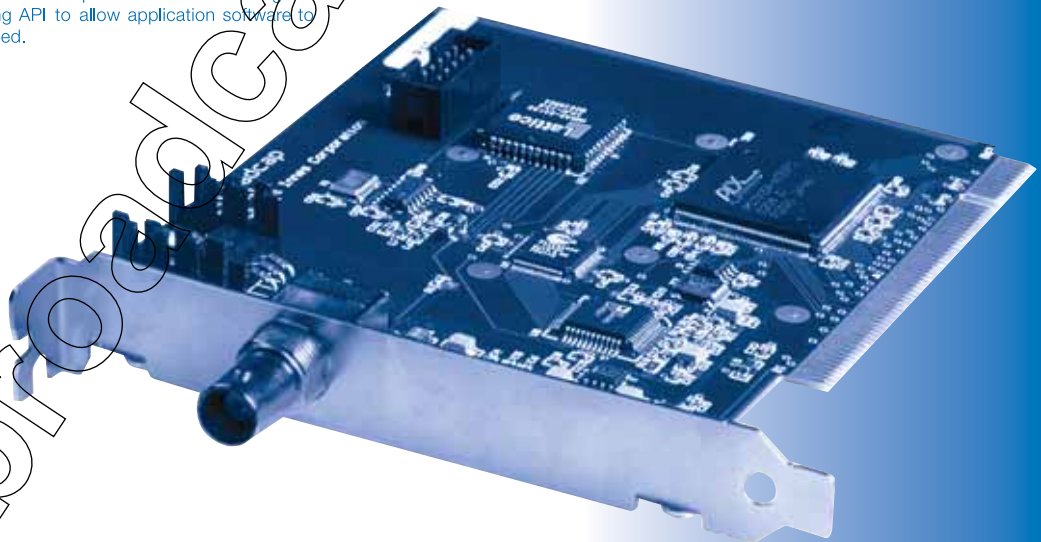
AM RADCAP

The card uses a high speed analog-to-digital converter to digitise AM band, and then uses advanced digital signal processing utilising the MMX instruction set of PC's processor to extract the audio for each individual station. It can be configured to either create a separate audio stream for each station or to pair stations together as stereo streams.

FM RADCAP

The card uses four 6-channel digital-down-converter chips, each incorporating an on-chip A/D converter that digitises the entire FM band and digital filtering to extract each channel. The supplied Windows device driver then demodulates each channel's composite signal and presents it as a standard stereo audio input wave device. A lower cost 6-channel version of the card, using only a single digital-down-converter, is also available.

A WDM driver for Windows 2000, XP and Server 2003 is supplied as well as software for setting the tuner frequencies and monitoring the received audio. A programming API to allow application software to control the cards is also included.





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AM RADCAP SPECIFICATIONS

SYSTEM REQUIREMENTS

Platform	Windows 2000 or Windows XP
Processor	500MHz Pentium II or better (for 8 stations)
Memory	128MB minimum
Motherboard	ATX-style PCI 2.2 compliant
Other	Sound card or motherboard sound port for monitoring

Notes

1. The driver requires the equivalent of about 40MHz of CPU time for each station plus an initial overhead of about 200MHz of CPU time.
2. The card relies on the 3.3V supply being available on the PCI connector which became mandatory under the PCI 2.2 specification. Older AT-style motherboards generally do not support this.

SPECIFICATIONS

Tuning range	500kHz to 1700kHz in 1kHz steps
Sensitivity	50uV for 40dB S/N
RF input impedance	50 ohms
Filter attenuation	82dB at 15kHz or more from centre frequency
Audio bandwidth	5kHz
Audio distortion	<0.1%
Audio sampling rate	22.05kHz (other rates supported via Windows SRC)
Number of stations	Factory configured (up to 20)

FM RADCAP SPECIFICATIONS

SYSTEM REQUIREMENTS

Platform	Windows 2000 or Windows XP
Processor	200MHz Pentium or better
Memory	128MB minimum
Other	Sound card or motherboard sound port for monitoring

SPECIFICATIONS

Tuning range	87.5MHz to 108.5MHz in 25kHz steps
Sensitivity	10uV for 40dB S/N
RF input impedance	75ohms
Audio bandwidth	15kHz
De-emphasis	Configurable as 50us or 75us
Audio distortion	< 0.1%
Audio sampling rate	48, 44.1, 32, 24, 22.05, 16, 12, 11.025, 8 kHz
Number of stations	6 or 24 stereo Stations

Note: Specifications subject to change without notice.

p +61 2 9987 0498 f +61 2 9987 0599 e sales@innescorp.com.au
PO Box 1844 or 3/38 Leighton Place Hornsby NSW Australia 2077

www.innescorp.com.au

