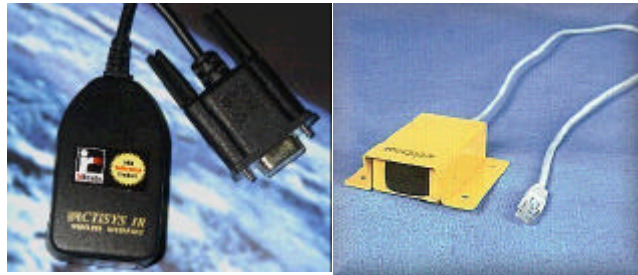


# ACTiSYS Ruggedised IR Adapters

The ACTiSYS ACT-IR220L (Standard) or IR220LR (Ruggedised) attaches to the RS232 serial port of PC to give the user wireless data transfer for record synchronisation, file back-up and network access, directly from IrDA compatible devices - compatible with any IR or IrDA communication protocol specifications.



IR220L (Standard) is IrDA-1.0 compatible with data rates of 9.6, 19.2, 57.6, 115.2K bps. It can reach communication distances of 0 cm to 200 cm with no external power.

IR220LR(Ruggedised) is ideally suitable for the ruggedised applications in military, industrial or medical applications and is compatible with IrDA-1.0. It can reach communication distances of 100cm and beyond, through a long 500ft CAT-5 cable from a standard RS-232 port. No external power is required. The IR220LR can survive tough environments to give a reliable and convenient IR wireless communication link. It operates under extended temperature range from -40°C to 70°C and meets NEMA specifications.

## Specification

### FUNCTIONAL

#### Physical Layer

IR220L/220LR: IrDA-1.0 (SIR) compatible.

#### Communications

IR220L/220LR: Communication speeds programmable at 9.6K, 19.2K, 57.6K, 115.2K bps.

#### Distances & Speeds

IR220L: Distance of 0cm to 200cm (using 100-ft serial cable from standard RS232 port of PC).

IR220LR: Distance of 0cm to 100cm (using 500-ft CAT-5 cable from standard RS232 port of PC).

#### Connectors

IR220L: An integral 6-ft cable with DB9 (F) connector.

IR220LR: An integral 4-ft CAT-5 cable with RJ45 (M) connector.

#### Software

Windows 95-IR driver 2.0, Windows 98, Windows 98 SE, Windows 2000, Linux, Puma-Tranxite Pro  
Windows NT 4.0 is not compatible (Need to purchase additional third party software)

### ENVIRONMENTAL

#### Temperature

IR220L: 0 - 40° C Operating

IR220LR: -40° C to 70° C Operating

#### Ruggedisation

IR220LR: Meets NEMA specification. Passes Drop test, Direct hit test, Water proof test.

### PHYSICAL

#### Dimensions

IR220L: 2.4"L x 1.4"W x 0.74"H (61.8mm x 35.6mm x 18.7mm)

IR220LR: (Top portion) 3.8"L x 2.1"W x 1.25"H (97mm x 53.4mm x 31.7mm)

(Mounting bottom portion) 3.4"L x 3.7"W x 1.25"H (87.3mm x 93.4mm x 31.7mm)

#### Weight

IR220L: 2.85 oz ( 77.2g)

IR220LR: 18 oz ( 487g)

### ELECTRICAL

#### Power Consumption

RS232 port power only. No external power required.

IR220L/220LR: 0.30W (Peak)

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Rugged Systems is one of Europe's leading suppliers of rugged, mobile computer, display and communications solutions and services. Specialising in applications such as test & measurement, command and control, data acquisition, secure data & computing, TEMPEST and ultra-reliable message transfer over noisy tactical communication channels. The company strives to be innovative and provide cost effective solutions, through many years of knowledge and experience

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