Serial Data to RAW SIR Interface PCBA

ACT-IR220LDB-LA, Compatible with LASCAR PANEL-IR module

- Uses IrDA®-v1.0, RAW IR communication standard.
- Connects to microcontroller, UART, or EasyLog module.
- Half duplex communications.
- 10-way pin header.
- Supports 9600 bps (Other data rates are available by request).
- IR pulse: 1.63 $\mu$S.
- No IrDA protocols supported, supports only Raw IR.
- Compatible with LASCAR’s PANEL-IR PCBA module.
- RoHS compliant.

* All trademarks, logos, organization & company names and product model names are owned by of the respective organizations and companies.
Specifications

- **Compatibility:**
  Fully compliant with IrDA®-v1.0, Raw IR specification

- **Communication speed and distance:**
  9600 bps (Other data rates are available); 1 cm - 158 cm

- **Power source:**
  Obtains power from host system

- **Power consumption:**
  Active current: < 60 mA; standby current: < 15 mA

- **Dimension / weight:**
  38 mm (L) X 18 mm (W) X 12.5 mm (H) / 61 g

- **Operating / storage temperature:**
  0°C to +60°C / -20°C to +85°C

- **Pin function definition**

<table>
<thead>
<tr>
<th>PIN No.</th>
<th>Function</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1<del>3; 6</del>8</td>
<td>N/C</td>
<td>No connection. Do not connect anything to these pins.</td>
</tr>
<tr>
<td>4</td>
<td>0 V</td>
<td>0 V power supply.</td>
</tr>
<tr>
<td>5</td>
<td>V+</td>
<td>5 V power supply.</td>
</tr>
<tr>
<td>9</td>
<td>RxD</td>
<td>Receive data – received data appears on this pin.</td>
</tr>
<tr>
<td>10</td>
<td>TxD</td>
<td>Transmit data – applies data to be transmitted to this pin. If the PCBA is solely used for receiving data then TxD should be connected to V+ via a 47kΩ resistor</td>
</tr>
</tbody>
</table>

ACTiSYS Corporation
921 Corporate Way
Fremont, CA 94539-6118, U.S.A.
Tel: +1-510-490-8024, Fax: +1-510-623-7268
E-mail: irda-info@actisys.com
Web Site: http://www.actisys.com