

## *IrDA<sup>®</sup> Compliant Protocol Processor*

### **ACT-IR8260D /ACT-IR8261D**

- ACT-IR8260D /ACT-IR8261D (or briefly, **ACT-IR826xD**) has a complete IrDA<sup>®</sup> Protocol stack in a single chip. There is no any functionality difference between ACT-IR8260D and ACT-IR8261D except buffer size: the latter has more buffer.

- **Buffer Size**

	Buffer (Bytes)				
	Host Inbound	Host Outbound	IrDA In Frames	IrDA Out Frames	Total
<b>ACT-IR8261D</b>	2K	2K	1K	1K	<b>6K</b>
<b>ACT-IR8260D</b>	1K	1K	0.5K	0.5K	<b>3K</b>

- No any driver needed.
- Includes IrPHY<sup>™</sup> encoding/decoding and interfaces directly to Infrared transceivers for data rate up to 115.2 kbps. Only an external Infrared transceiver is needed to complete an IrDA compliant infrared communication subsystem.
- Supports mandatory IrDA layers: IrPHY<sup>™</sup>, IrLAP<sup>™</sup>, IrLMP<sup>™</sup> and IAS<sup>™</sup>.
- Supports upper layers: TinyTP<sup>™</sup>, IrCOMM<sup>™</sup>, IrLPT<sup>™</sup>, and OBEX<sup>™</sup>.
- Supports host baud rate from 1.2 kbps to 115.2 kbps, which is changed by PC configuration utility or hardware jumper. IrDA baud rate from 9.6 kbps to 115.2 kbps, which is flexible, setting by IrDA devices.
- Supports both IrDA Primary and Secondary modes.
- Current consumption: Stand-by: 105μA; Active: 8.8mA.
- Small low profile plastic 64-pin QFP package.
- Available in programmed and tested chips, assembled & tested boards, or fully packaged dongles. All passed IrDA- “IrReady<sup>™</sup>” certification tests!



## **IrDA<sup>®</sup> Compliant Protocol Processor**

### **ACT-IR8260D /ACT-IR8261D**

- A ready-made IrDA<sup>®</sup>-compatible **evaluation dongles** ACT-IR100UD-v2 is available. Before purchasing ACT-IR826xD chip, we strongly recommend you to buy a set of **Evaluation Kit**: [ACT-IR826xDEK \(i.e., ACT-IR8260DEK or ACT-IR8261DEK\)](#), which is equal to ACT-IR826xDDB (**D**ughter **B**oard, either ACT-IR8260DDB which has [less buffer](#) or ACT-IR9261DDB [more buffer](#)) plus ACT-IR8260DMB (**M**other **B**oard). Default is ACT-IR8260DEK. Optional is ACT-IR8261DEK for more buffer.
- Another very useful **Evaluation Kit Full Set** is [ACT-IR100UDK-v2](#), which includes: ACT-IR100UD-v2 and ACT-IR4002US (IrDA FIR USB adapter). This kit can evaluate data transmission between ACT-IR100UD-v2 (your device) and ACT-IR4002US (PC), running under HyperTerminal in Windows. It can avoid debugging multiple issues at the same time.  
e.g. :
  - Does IrDA software activate and behave properly with the matching protocol layer?
  - Is this an IR dongle to host interface issue (UART data rates, flow control, data bit/parity/stop bit, UART signal pins, power levels)?
  - Or is this a performance issues (throughput, distance, error rate/dropping bits)?

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