

**IrDA PROTOCOL IC COMPARISON TABLE (v1.27, 2003/11/06)**

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**(ACTiSYS ACT-IR82xxP/ACT-IR8200LX, and Microchip MCP21x0)**

		ACTIR8240P	MCP2140	ACTIR8250P	MCP2150	ACTIR8200P	ACTIR8200L	IR8200LM	IR8200LT
<b>Compatibility</b>	<b>Windows98SE/ME/2000/XP</b>	All Compatible	Yes	All Compatible	Yes	All Compatible	All Compatible	All Compatible	All Compatible
	<b>Palm O.S.</b>	All Compatible	Not All	All Compatible	Not All	All Compatible	All Compatible	All Compatible	All Compatible
	<b>Windows CE &amp; Pocket PC</b>	All Compatible	Not All	All Compatible	Not All	All Compatible	All Compatible	All Compatible	All Compatible
	<b>Symbian O.S.</b>	Compatible	Not Sure?	Compatible	Not Sure?	Compatible	Compatible	Compatible	Compatible
<b>Certificat.</b>	<b>*IrDA-IrReady Certified</b>	Yes, in Embed. RS232 Adapter	No	Yes, in Embed. RS232 Adapter	No	Yes, in Embed. RS232 Adapter	Yes, in Embed. RS232 Adapter	Yes, in Embed. RS232 Adapter	Yes, in Embed. RS232 Adapter
	<b>*Your Product To Pass Certification</b>	Yes, Quickly	No	Yes, Quickly	No	Yes, Quickly	Yes, Quickly	Yes, Quickly	Yes, Quickly
<b>IrDA Protocol Stack</b>	<b>IrDA Protocol Lower Layers</b>	IrLAP, IrLMP, IAS, TinyTP	Same	Same	Same	Same	Same	Same	Same
	<b>IrDA Protocol Upper Layers</b>	IrComm, IrLPT, IrObex Transport	IrComm only	IrComm, IrLPT, IrObex Transport	IrComm only	IrComm, IrLPT, IrObex Transport	IrComm, IrLPT, IrObex Transport	IrComm, IrLPT, IrObex Tspt, <u>IrFM</u>	IrComm, IrLPT, IrObexTspt, <u>IrFM</u>
	<b>Primary-mode; Secondary-mode</b>	Secondary only	2ndary only	Secondary only	2ndary only	Primary, 2ndary; or Primary+2ndry	Secondary only	Primary, 2ndary; or Primary+2ndry	Primary, 2ndary; or Primary+2ndry
	<b>IrDA Baud Rate</b>	9.6k-115.2kbps	Same	Same	Same	Same	Same	Same	Same
	<b>Data Size/Packet</b>	64 bytes	64 bytes	64 bytes	64 bytes	64 bytes	128 bytes	128 bytes	2,048 bytes
	<b>Protocol &amp; Host Parameters Select</b>	Yes, Order & Factory Set	No	Customer Selectable & Factory Set	No	Customer Selectable & Factory Set	Software or Jumper Selectable	Software or Jumper Selectable	Software or Jumper Selectable
<b>Host Interface</b>	<b>Host Interface Data Format</b>	8n1 only	8n1 only	8n1, 8e1, 8o1, 7e1, or 7o1	8n1 only	8n1, 8e1, 8o1, 7e1, or 7o1	8n1, 8e1, 8o1, 7e1, or 7o1	8n1, 8e1, 8o1, 7e1, or 7o1	8n1, 8e1, 8o1, 7e1, or 7o1
	<b>UART Rate</b>	9.6kbps only	9.6kbps	9.6k~115.2kbps	To 115.2k	9.6k~115.2kbps	1.2k~115.2kbps	1.2k~115.2kbps	1.2k~115.2kbps
	<b>Flow-control</b>	Hardware, extra 4 bytes tolerance	Hardware	Hardware, extra 4 bytes tolerance	Hardware	Hardware, extra 4 bytes tolerance	Hardware, extra 4 bytes tolerance	Hardware, extra 4 bytes tolerance	Hardware, extra 4 bytes tolerance

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**I IrDA PROTOCOL IC COMPARISON TABLE (Continue) (v1.27, 2003/11/06)**

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		ACTIR8240P	MCP2140	ACTIR8250P	MCP2150	ACTIR8200P	ACTIR8200L	IR8200LM	IR8200LT
	<b>Throughput</b>	Very Slow	Very Slow	Slow	Very Slow	Medium	Medium Fast	Medium Fast	Fast
<b>Special Feat.</b>	<b>Firmware Customization</b>	Yes, Special Order	No	Yes, Special Order	No	Yes, Special Order	No	No	No
	<b>AES Encryption</b>	No	No	Special Order	No	Yes, Special Order	No	No	No
	<b>Firmware Field Programmable</b>	Yes, Special Order	No	Yes, Special Order	No	Available	No	No	No
<b>Electrical Spec.</b>	<b>Operating Vcc</b>	3V-3.6V	3V-5V	3V-3.6V	3V-5V	3V-3.6V	3.3V, 5.0V	3.3V, 5.0V	3.3V, 5.0V
	<b>Active Pwr</b>	2 mA@ 3.3V	4mA@ 5V	2 mA@ 3.3V	4 mA @5V	2 mA@ 3.3V	10 mA@ 3.3V 40 mA@ 5V	10 mA@ 3.3V 40 mA@ 5V	10 mA@ 3.3V 40 mA@ 5V
	<b>Standby Pwr</b>	2 µA	<1mA@5V	2 µA	<1mA@5V	2 µA	10 mA@ 5V	10 mA@ 5V	10 mA@ 5V
	<b>Crystal Freq.</b>	7.3728MHz	11.0592MHz	7.3728MHz	11.0592MHz	7.3728MHz	22.1418MHz	22.1418MHz	22.1418MHz
	<b>Endec Xstal Freq.</b>	No Need	No Need	No Need	No Need	No Need	3.6864MHz	3.6864MHz	3.6864MHz
	<b>IrDA Xsmit Pwr</b>	<100 mA	<100 mA	<100 mA	<100 mA	<100 mA	<100 mA	<100 mA	<100 mA
<b>Extra Funct.</b>	<b>Other Function</b>	Shutdown and Standby modes with Automatic Wakeup by Incoming IR	No	Shutdown and Standby modes with Automatic Wakeup by Incoming IR; 8ch ADC10	No	Shutdown and Standby modes with Automatic Wakeup by Incoming IR; 8ch ADC10	No	No	Extra External SRAM Support
<b>Package</b>	<b>Form Factor</b>	IC&Small Module	IC only	IC&Small Module	IC only	IC&Small Module	IC & PCB module	IC & PCB module	IC & PCB module
	<b>Chip Set</b>	Single IC	Single IC	Single IC	Single IC	Single IC	1 IC + Endec IC	1 IC + Endec IC	1 IC + Endec IC
	<b>Package</b>	20Pin TSSOP	20 Pin	28 Pin TSSOP	20 Pin	64 Pin QFP	44Pin PLCC,TQFP	44PinPLCC,TQFP	44PinPLCC,TQFP
<b>\$</b>	<b>Price</b>	Low	Low	Low	Low	Medium	Medium High	Medium High	Medium High
	<b>Adapter&amp;Voltages</b>	EvalBoard,5/12/30V	No	EvalBoard,5/12/30V	No	IR100SP,5/12/30V	IR100SL,5/12/30V	IR100SL,5/12/30V	IR100SL,5/12/30V

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\*IrReady certification assures: a) reliable error-free IR data transfer, b) solid compatibility with other IrReady certified IrDA devices, c) strong immunity to interference. "IrReady Certified Products Honor Roll" is listed at [www.irda.org/prodlist/irready.asp](http://www.irda.org/prodlist/irready.asp). IrReady certification requires passing: IrPHY (Bit Error Rate, Intensity, Sensitivity, Timing), Inter-Operability (IrDA Profiles), and IrDA Protocol tests.