

# iAnywhere IrDA SDK

## An Embedded IrDA Protocol Stack

### KEY FEATURES

- Complete IrDA protocol stack
  - IrLAP
  - IrLMP
  - IAS
  - Tiny TP
  - IrLPT (3-wire raw)
- Compatible with iAnywhere Blue SDK (Bluetooth SDK)
- Optional Add-in products
  - IrCOMM
  - IrOBEX
  - IrFM
- Up to 16 Mbps Fast IR
- Window size of 7 for maximum throughput
- Less than 20K code size
- Primary and secondary capable
- Portable source code SDK
- Provides IR for all types of embedded devices

The iAnywhere IrDA Software Development Kit (SDK), provides a very fast and efficient way to add reliable Infrared Data Association (IrDA) compliant infrared communications to an embedded device. iAnywhere's IrDA software is designed for use in portable office equipment, adapters, mobile phones, PDAs, pagers, digital cameras, medical equipment, industrial automation products and more. iAnywhere's IrDA expertise, extensive involvement in the IrDA standards organization, and large customer base assures you of quality code written to the IrDA specifications, industry proven reliability, and complete IrDA functionality.

### PORTABLE, EASY TO USE CODE

The iAnywhere IrDA SDK is delivered as a well-documented, portable source code solution so that engineers have both an easy to use product as well as complete control over their infrared implementation.

### FASTEST EMBEDDED IRDA STACK

The iAnywhere IrDA SDK provides the fastest speed and throughput available for an IrDA stack. The stack communicates at IrDA's maximum data transfer rate of 16 Mbps and also maximizes throughput by using a data transfer window size of seven. This implementation improves IrDA performance, especially at higher data rates.

### COMPLETE IRDA FUNCTIONALITY IN A SMALL FOOTPRINT

The stack is a complete IrDA development kit packed into less than 20K of ROM. It is a complete IrDA communications stack. The SDK provides both an IrDA stack and framer code for 115Kbps and 4Mbps IR controllers. Additional source code framers are available for many popular IR controllers. The IrDA stack includes IrLAP, IrLMP, IAS, Tiny TP, and IrLPT (3-wire raw). The stack supports both primary (initiate) and secondary (respond) connections, and by setting a compile-time switch the stack can become a secondary only. Also available for this stack are the optional application add-in products IrCOMM, IrOBEX, and IrFM to further extend infrared functionality.

### ADDITIONAL PRODUCTS AND SERVICES

iAnywhere is a leader in IrDA and Bluetooth wireless connectivity, as well as data synchronization software. iAnywhere Professional Services Group brings the company's experts to your development team.

### IANYWHERE IRDA SDK PORTS

Ported source code versions of the iAnywhere IrDA SDK are available for VxWorks/Tornado.

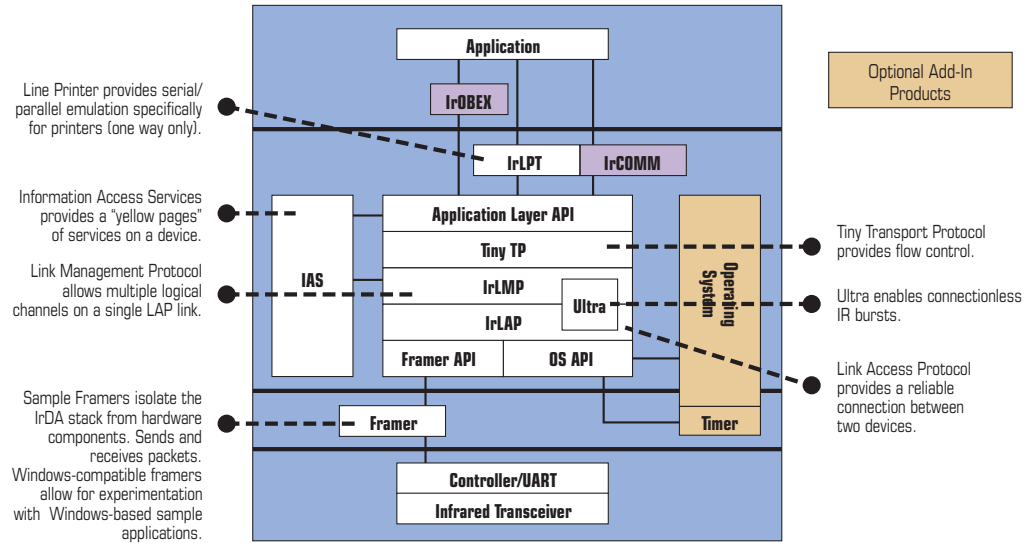
### FAST CONNECT SUPPORT

Applications such as the IrFM Point-and-Pay Profile require faster connection establishment than IrDA 1.1 protocols provide. The iAnywhere IrDA SDK now supports Fast Connect features which allow IrDA device discovery and connection in less than 100 ms. Both initiator and responder roles are supported.

- Framer library allows customers to pick and choose from a set of sample framers

- Windows-compatible framer for experimentation with Windows-based sample applications
- Optional support for unreliable expedited data transfers (an important feature for Medial Information Bus users)
- Compatible with iAnywhere Blue SDK. Both Protocol stacks share common code libraries and operating system integration functions for further code savings
- Support for seamless integration with iAnywhere's Multi-transport OBEX Add-In

iAnywhere IrDA SDK stack architecture



#### OTHER IRDA PRODUCTS:

##### QuickBeam® Suite for Windows

A complete IrDA stack and file transfer program for Windows 95/98 and Windows NT.

##### iAnywhere IrLite®

A very tiny (less than 10K) IrDA stack available in source form and optimized for 8-bit implementations.

##### IrCOMM Add-In

Emulates 3-wire and 9-wire serial/parallel communications APIs.

##### IrOBEX Add-In

IrDA Object Exchange transmits objects (files, graphics, vCards, vCalendars and vMessages) and takes care of discovery, setup, and maintenance of the IR connection.

##### Training, Support and Engineering Services

All available from the IrDA specialists at iAnywhere.

##### IrFM SDK

Software development kit for implementing infrared for financial messaging (IrFM).

##### Test Tools and Services

Tools to test and develop any IrDA implementation, and services to validate interoperability and conformance to IrDA standards.

For more information and a list of distributors visit our web site: [www.iAnywhere.com](http://www.iAnywhere.com)



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