



IP3023 Extended Wireless Kit

Development Tools & SDK for IP3023 Network Processor

Product Brief

The Extended Wireless Kit (EWK) for the IP3023 wireless network processor is a complete solution for the development of configurable, highly integrated, network-enabled embedded designs. The kit includes a suite of hardware and software development tools for the IP3023 which operate under the UnityTM integrated development environment. This platform is complemented with Ubicom's core Software Development Kit (SDK), a robust collection of networking and communications-oriented software modules highly optimized for code size and performance. The core SDK provides functionality from the PHY layer up through the application layer. Initial SDK support for the IP3023 includes solutions for 802.11a/g Ethernet bridge, access point, and router/gateway applications, along with general core networking platform support. The kit will broaden with additional embedded client application solutions in follow on SDK releases.

SOFTWARE DEVELOPMENT TOOL SUITE

UnityTM Integrated Development

Environment (IDE) from Ubicom

- WindowsTM-based GUI supports:
 - Project Mgr w/version control
 - Editor
 - Software tool suite, utilities
 - HTML document printing

Runs under Win 2000/NT/XP

GNU-based Development Tools

- Optimizing C compiler/assembler
- Linker, debugger, libraries

SDK tools

- SDK Configuration Tool
 - ipModule and configuration menu
 - Build code foundation in minutes
- UI Generator
 - Simplifies building & customization of web pages
- Locator, resource Profiler, other utils

NETWORKING SDK/IPMODULES

ipOS – embedded OS designed to take advantage of Ubicom processors unique capabilities

NetBufs – patent pending, zero-copy packet buffering for maximum performance

ipHAL – hardware abstraction layer

PHY interfaces

10/100 Ethernet MAC x 4, 10bT MAC/PHY

Soft PCI for 802.11a/g radio interface

Prism GT/Duette 802.11a/g drivers

Additional drivers in future releases

GPSI/UARTs/I2C/SPI on SerDes or in software

TCP/UDP/IP/ICMP/ARP/PPP core protocols

Networking and wireless application modules

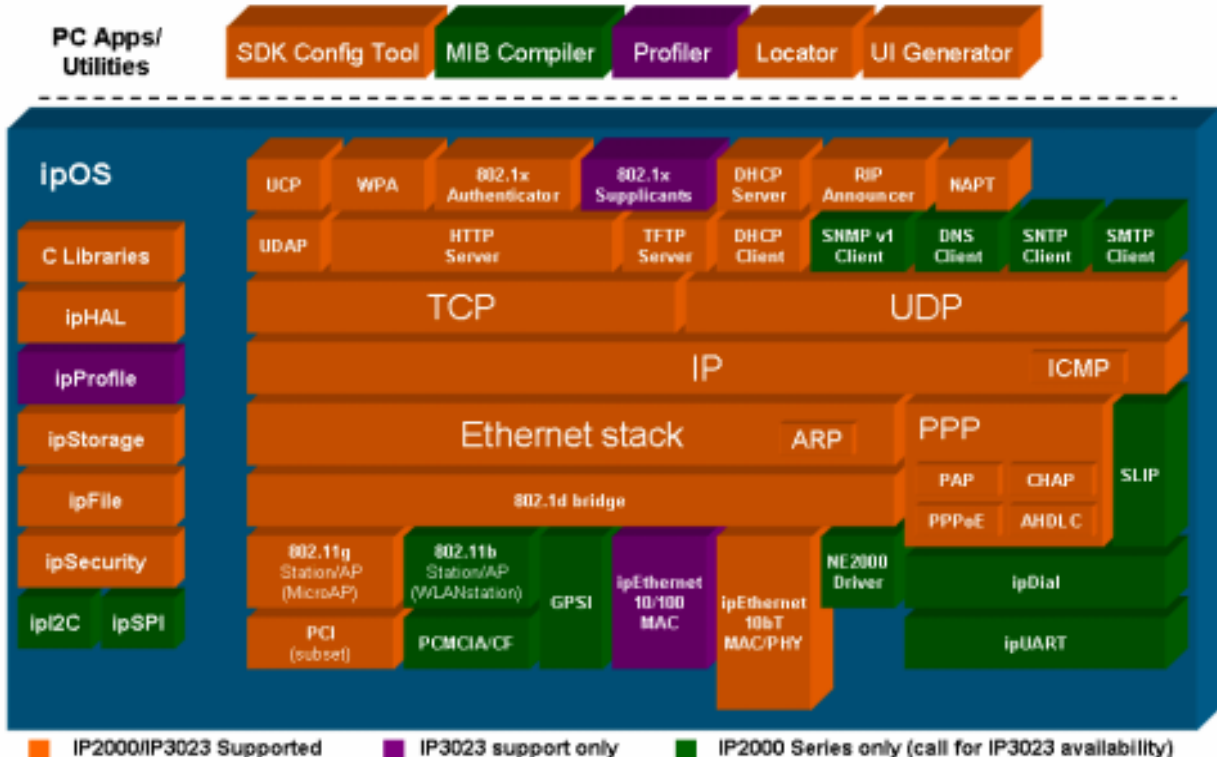
DHCP client, HTTP, TFTP

Router – NATP, DHCP server, RIP

WPA, 802.1x authentication and supplicants

Ubicom Control, Device Application Protocols (UCP, UDAP) for discovery and configuration

NETWORKING SOFTWARE DEVELOPMENT KIT (SDK)



IP3023 MAIN DEVELOPMENT



HARDWARE DEVELOPMENT TOOLS

- IP3023 Development Board
- Mini PCI connector for 802.11a/b/g card
- One serial, two 10/100 ports
- Three extension headers for daughtercards
- Protoboard Daughtercard (included in kit)
- Ethernet In-system program/debug dongle
- Various cables, power supply, etc.

| KITS-> | | |
|-------------------------------------|-----------------------|---|
| | Extended Wireless Kit | IP2000-IP3000 |
| Key Kit Contents | DNK | Software License Agreement |
| Hardware | | |
| IP3023 Development Board | √ | |
| Prototyping Daughtercard | √ | |
| 802.11g Atheros mini PCI card | √ | |
| Ethernet ISP/ISD Dongle | √ | |
| Software | | |
| IP2000 & IP3000 SDK | | √ |
| Tools | | |
| Unity IDE | | √ |
| IP2000 & IP3000 GNU-based Toolchain | | √ |
| Order Info: | | |
| Order # | IP3K-FSP-EWK | IP3K-SLA-EWK |
| User License | | Site License |
| Distribution License | | Unlimited binary distribution running on Uvicom silicon |



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Uvicom, Inc. develops and markets wireless network processors and software platforms that enable all electronic devices to be connected to each other – securely, cost-effectively and transparently. With headquarters in Mountain View, California, Uvicom also has offices in the Netherlands, Taiwan and Hong Kong. For more information, visit www.ubicom.com.

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