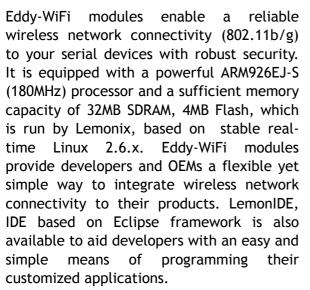
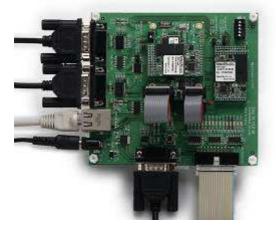
Eddy[™] WiFi Modules

Serial to WiFi Embedded Modules

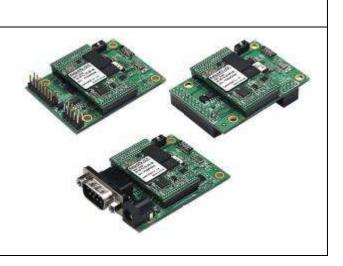
Main Features

- 32-bit ARM9 CPU / 4MB Flash / 32MB SDRAM
- 802.11b/g Wireless(Max 54Mbps)
- RS232 or RS422/485 Serial Interface
- Max Serial Communication Speed : 921.6Kbps
- Pin Header / DB9 / TTL Interface
- Supported by Dev Kit including SDK & API
- Operated by Real Time Linux, Lemonix™
- Supported by Eclipse based IDE, LemonIDE $^{\mathrm{m}}$
- Provides easy-to-use Windows utilities
- COM Port Redirector, PortView™, TestView™
- Operating Temp : -20 ~ 85°C





Eddy modules mounted on the Development Kit Board



The best embedded solution for your customized application !

Eddys are distinguished with other embedded device servers in that it can upload and execute user's customized applications. With least amount of effort, developers can upload any socket / serial communication application that was desinged on standard Linux environment with no or little modification.

Eddys can be deployed in various industrial fields immediately as an embedded device server without any customization using its default functionality. Almost entire source codes for Eddy's functions are open to developers. Such openness provides users a chance to apply a wide variety of operations on Eddy, with considerably less limitations.

To help programmers work on their own application SDK (Software Development Kit) and LemonIDE an IDE(Integrated Development Environment) based on Eclipse is supported. With SDK, ready-to-run example codes and an easy to use LeomonIDE, developers can easily build their own applications for Eddys.

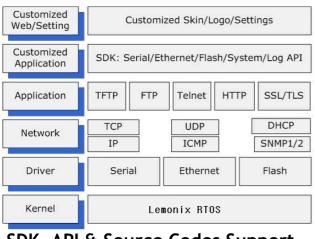


Industry's Most Powerful Specs

Tired of constraints on your embedded device server's 8-bit CPU and 256KB memory? Eddy provides a simple and complete relief to these concerns by adopting a 32-bit ARM9 CPU with 180MHz clock, 4MB Flash memory, and 32MB SDRAM. Your applications can be large in size and will run faster, in a more stable manner under the real time embedded Linux operating system, Lemonix.

Real Time Linux - Lemonix[™]

Lemonix is a Real Time Linux built on Linux kernel 2.6.x. Standard Linux kernel 2.6.x has been revised to support Real Time capability while retaining the stable traits and merits of Linux kernel 2.6.x. Real time scheduler, preemptive kernel and lock-break methods have been implemented on Lemonix to guarantee a maximum response latency of under 37us enabling a stable and reliable means of real time communication.





Eddy is distinguished with other embedded device servers in that it can upload and execute customized user applications. To enable developers to program their own socket/serial communication applications with least amount of time and effort, SystemBase provides arrays of development support including, SDK (Software Development Kit), API (Application Programming Interface) and Source Codes to assist developments

Eclipse based IDE- LemonIDE[™] Support

LemonIDE is an integrated development environment built on open source Eclipse framework. LemonIDE provides an easy & effective GUI (Graphical User Interface) for Application and Firmware Developments that runs on SystemBase's embedded real time Linux, Lemonix

LemonIDE encompasses GNU C/C++ Compiler, Source Code Editor and Debugger delivering a one-stop development environment solution to embedded developers with conveniences of simple mouse click execution.

0 DKDH 100 # 0 6 5 8	Booking with a Colora Sta	101
Chi Dit Briets Autor Son	th Brand DecTate Der Woose Solo	
TT		the Append
	Contract Contract Contract Contract Contractor	
2 2 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	T _SHAD_BELS	
- Brunnings Dissue of state and a	f dafianinid_size_i A dafiansmad.MEL A iminim waldef.to	
 Cribitug Dirotteliki 	# instals skills/ippen.ks # definerescilli	
il: .cdpsject El primi	f and thebreakfills feeded /* Then to read WELE 1	
a dias	3 Ald Interiment _FUE_Art(and Ak Art) and _rams_TISE	
Nomen P	Construction of the second secon	al situation, 17
# _STDELH	H Lothers	
M Feature A	- Taxe = - Canole	083748
#	iters .	1000
#A	- 1 Descotion Research Fait	Localization (Concerning)
Children B		
W bitaltopen.k		
# _ send Fills		
2 _ test192		
#testF&E #F&E		
2 _mm182		nto

Development Kit

Eddy Development Kit provides an easy testing and evaluation environment for Eddy applications. Before integrating Eddy to user's hardware, applications are first programmed and tested on the development board. Power, Ready, Communication Interface, and GPIO Serial Signal Status LEDs on the development board provides a visual guide in understanding Eddy's operating status.

Windows Utility Support

High featured and easy-to-use utilities to monitor and test your finalized products over network and serial interface are provided at no cost. SystemBase management utilities, COM port redirector, PortView and TestView enables an accurate monitor and full administration of your inventions.

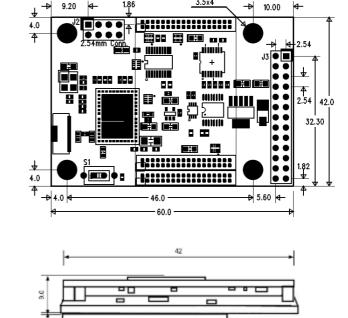


Eddy[™] WiFi Modules SPEC SHEET

1.86

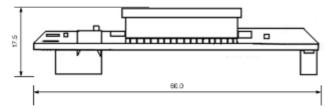
Eddy[™] WS1/TTL



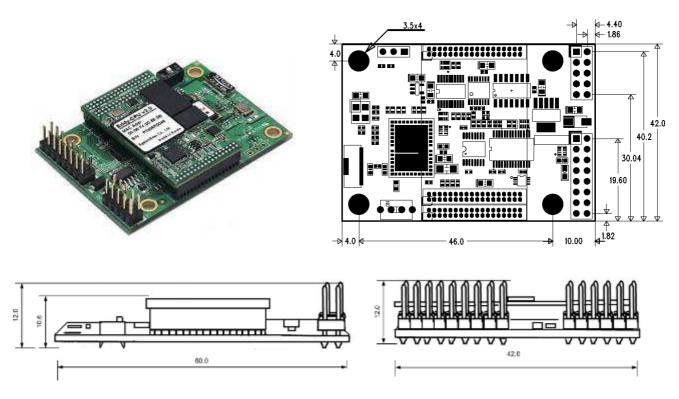


3.5x4

4



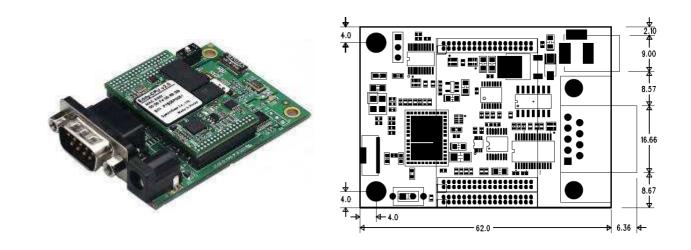
Eddy[™] WS1/PIN

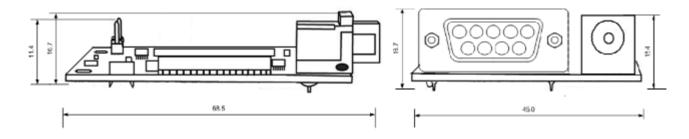


8



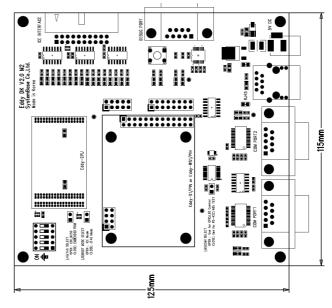
Eddy[™] WS1/DB9





Eddy[™] Development Kit







Eddy[™] WiFi Modules SPEC SHEET

Eddy[™] WiFi Modules Specifications

		WS1/TTL	WS1/PIN	WS1/PIN-C	WS1/DB9	WS1/DB9-C	
	CPU	ARM926EJ-S (180MHz)					
<u>H/W</u>	Memory	4MB Flash / 32 MB SDRAM					
	LED	None			2 LEDs(Data, Ready)		
	GPIO		4		N/A		
	Power Input	3.3V ~ 5V Pin Input		5V Power Jack			
	Power Consumption	5V / 290 mA (1.5 W /			Max)		
	Dimensions	60x42x12mm 60 x 42 x 16 mm		62 x 45 x 19 mm			
	Operating System	Real Time Linux Lemonix (Kernel 2.6.x)					
	Mgmt. Tools	SNMP, Portview, Web					
<u>S/W</u>	Terminal	Telnet, SSH					
	Application Upload	TFTP, FTP, Web					
	Web Service	Embedded Web Server					
	Serial Interface	RS232	R\$232	RS422/485	RS232	RS422/485	
	Serial Port	1 x TTL	1 x Pin	Header	1 x	DB9	
	Serial Speed	150 ~ 921.6 Kbps					
	Signals	TX, RX, DTR, DSR, CTS, RTS, DCD					
<u>Serial</u>	Data Bits	5, 6, 7, 8					
	Stop Bits	1, 2					
	Parity	None, Even, Odd					
	Flow Control	RTS/CTS, Xon/Xoff					
	Console Port	RS232 Console port					
	Communication Std	802.11b/g Wireless					
	Frequency	2.4GHz ISM Band					
	Wireless Security	WEP-64bit/128bit, WPA-PSK, WPA-EAP, WPA2-PSK, WPA2-EAP					
Network	Antenna	Chip Antenna with 2dBi gain					
	Output Power	802.11g : 13 dBm(20mW), 821.11b : 15 dBm(32mW)					
	Data Rate	Wireless: Max 54Mbps					
	Connection Type	Static IP, DHCP					
	Protocol	TCP, UDP, Telnet, SSH, SSL/TLS, DDNS, ICMP, DHCP, TFTP, HTTP, SNMP 1 & 2					
Environ mental	Operating Temp	-20 ~ 85 °C					
	Storage Temp	-60 ~ 150 °C					
	Humidity	5 ~ 95% Non-Condensing					
Programming		Support					
<u>Approvals</u>		CE Class A, FCC Class A, RoHS compliant					



Eddy-WiFi™ Modules SPEC SHEET

Eddy[™] Development Kit Specifications

	Eddy Development Kit	
LED	Power, Ready, 16 Programmable IO Console and Serial TxLED, RxLED	
Switch	Product Setting Switch	
Jumper Switch	Boot Mode Select, JTAG Select, RS422/485 Select	
Serial Port	2 x DB9 Male, Port 1 : (RS232. RS422, RS485), Port 2 : RS232 Only	
Console Port	1 x DB9 Male (RS232)	
LAN Port	1 x RJ45	
ICE Port	Used for Flash Image uploads	
Reset Button	Factory Default & warm boot	
Serial Interface	RS232, RS422/RS485 Selectable (RS422 & RS485 selected by S/W)	
Module Connection Socket	108 Pin header for Eddy-CPU connections 26 Pin header for Eddy-S1/PIN or Eddy-WS1/PIN connections 34 Pin TTL for Eddy-WS1/TTL connections	
Power Input	5V DC (400 mA)	
Dimensions	115 X 125 mm	

Ordering Information

Package

WS1/TTL	RS232 TTL Interface 3.3 ~ 5V Power Input	WS1/TTL	WS1/TTL Module Manual / Utility CD
WS1/Pin	RS232 PIN Header Interface 3.3 ~ 5V Power Input	WS1/Pin WS1/Pin-C	WS1/Pin or WS1/Pin-C Module Manual / Utility CD
WS1/Pin-C	RS422/485 PIN Header Interface 3.3 ~ 5V Power Input	WS1/DB9 WS1/DB9-C	WS1/DB9 or WS1/DB9 -C Module Manual / Utility CD
WS1/DB9	RS232 DB9 Serial Interface 5V(power jack) Power Input		Test Board & 1 Eddy Module, SDK/IDE/Compiler/
WS1/DB9-C	RS422/485 DB9 Serial Interface 5V(power jack) Power Input	Eddy DK	Documents/Utility CD LAN Cable, Serial Cable, Pin Header Cable, Board Support, Jumper, Power Adaptor, Power Cable
Eddy DK	Eddy Development Kit		

