

Model No : FN6-25UP (Preliminary)

Lanready Network Security Appliance – Support 2 Mini PCI Socket



Key Feature :

- CPU- Intel IXP43x-based network processor
(Clock Speed: 400/533/667MHz)
- Flash-8/16MB/32MB
- DRAM-32/64MB/128MB/256MB
- Mini PCI-
 - 2 mini PCI Slot
 - High profile Socket (9.2mm in height)
 - Support hi-power, up to 7 watt
 - Provide both 3.3V and 5V power source
 - Support mini PCI module with extra length, up to 65mm
- Support Real-Time-Clock
- Provide 2 * USB v2.0 Host Connector
- Encryption/Authentication
(AES/AES-CCM/3DES/DES/SHA-1/SHA-256/385/512/MD-5)
- Support Real-time-clock
- PoE – Proprietary
- Provides 5V Power Output pins
- Provides JTAG
- Console port with RJ11 connector
- One Buzzer , optional circuit, GPIO controlled (Optional)
- Support Over voltage protection
- Provide External Power Input thru STB (Screw Terminal Block) - Optional



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- **Temperature Sensor – enable application to read board temperature for further system control (Optional)**
- **Support Wide-Range Temperature**

FN6-25UP is a fully-featured reference appliance for based on the Intel®IXP43x-based network processor, targeting small and medium business and embedded computing applications. FN6-25UP enables rapid evaluation and development of converged “ solution in a box “ products – integrating Office UTM Firewall ,Wireless Mesh Router , enterprise-grade wireless access point . FN6-25UP is also targeted at general-purpose evaluation and development requirements in support of the Intel®IXP43x-based product lines. The board is fully RoHS compliant and is in full production .

Application :

- **Dual Radio Mesh Router**
- **3G Router**
- **VPN Router**
- **Load Balancer**
- **UTM Firewall (Security Gateway/Router)**
- **Outdoor Point-to-Point**
- **Outdoor Point-to-Multi-Point**
- **Hot Spot Gateway**
- **Industrial-Use Wireless Access**
- **Outdoor Surveillance**

Intel IXP4XX Product Line Differentiations

	IXP42X	IXP43X
Intel Xscale Processor	Up to 533MHz	Up to 667MHz
Memory	SDRAM	DDR2
MII (NPE)	3	2
Security	DES,3DES,AES,SHA1,MD5	DES,3DES,AES,SHA1,SHA256/384/512,MD5
10/100 MACs	2	2 (support TMII)
PCI	32bit/66MHz	32bit/33MHz



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USB	1 x 1.1 device	2 x 2.0 HS Host
HS UARTs	2	1

Software and Tools Support

Bootloader	Rednoot v2.01
Operating Systems	Monta Vista Linux 3.1 Pro (2.4 kernel) w/preview kit
	WindRiver-VxWorks:5.5.1
Application Software	Cen-AP
	Wili Mesh , Wili AP

Specifications	
Base Platform	Intel IXP 435
Clock Speed	667MHz
RS232	Consol Port with RJ11
RTC	Yes
Reset Switch	Push-button momentary contact switch
Standards Conformance	IEEE 802.3 / IEEE 802.3u
Fast-Ethernet Configuration	10/100 BASE-TX auto-negotiation Ethernet port x 5 (RJ-45 connector) Auto MDI/MDI-X enabled WAN : 1 (Support Passive Power Over Ethernet),LAN : 4
Mini PCI	2
Mini PCI Power Capacity	7 W / per socket
USB 2.0	1 * External , 1*Internal
SDRAM	64 Mbytes On board (Expand to 256MB)
Flash	16 Mbytes On board (Expand to 32MB)
LED Indicators	8 LEDs , Power(1) WAN(1), LAN(4), WLAN(2)
5V Power Output	Provides 5V pins for application use (ex.Fan Control)
JTAG reserved	On board connector to connect to off the shelf JTAG CPU emulator
Environmental & Mechanical Characteristics	
Operating Temperature	-20 °C ~ 85 °C
Storage Temperature	-40 °C ~ 85 °C
Operating Humidity	10% to 80% Non-Condensing



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Storage Humidity	5% to 90% Non-Condensing
Power Consumption	5.76 W
Input Power	12 VDC ***
Connector	DC-In Jack , RJ 45 (Power Over Ethernet) , RJ11 (Consol)
Power Supply	AC Input : 110 – 220V AC Power DC Output : 12 VDC, 1.5A input
Unit Dimensions	180x 120 (mm) (Width x Depth)