

Model No : WDR804

Lanready Mesh Network Appliance – Support 4 Mini PCI Socket (7W each)



Key Feature :

- CPU- Intel IXP42x-based network processor
- Flash-16/32MB
- DRAM-32/64/128MB
- Mini PCI-
 - 4 mini PCI Slot
 - High profile Socket (9.2mm in height)
 - Provide both 3.3V and 5V power source
- Support Real-time-clock
- PoE – Proprietary , 48VDC
- Provides 5V Power Output pins
- Provides JTAG
- Console port with RS232(DB9) connector
- Support Wide-Range Temperature

FN804 is a fully-featured reference appliance for based on the Intel®IXP42x-based network processor, targeting small and medium business and embedded computing applications. WDR804 enables rapid evaluation and development of converged “ solution in a box “ products – integrating Carrier-grade High Power wireless outdoor Mesh Router , WiMax Outdoor Repeater, enterprise-grade wireless access point , Medical Ethernet-enable equipment .

WDR804 is also targeted at general-purpose evaluation and development requirements in support of the Intel®IXP42x-based product lines. The board is fully RoHS compliant and is in full production .



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Application :

- Outdoor /Indoor QUAD / TRI Radio Mesh Router
- Outdoor WiMax Repeater / CPE
- Outdoor/Indoor Bandwidth Aggregation Point-to-Point for IP-TV /Internet TV
- Outdoor/Indoor Point-to-Multi-Point
- Outdoor Surveillance
- 3G Router
- VPN Router
- Load Balancer
- Firewall
- WiFi Hot Spot Gateway
- Industrial-Use Wireless Access
- WiFi Medical Equipment

Software and Tools Support

Bootloader	Rednoot v2.01
Operating Systems	Linux
Application Software	Wiligear Mesh
	Wiligear Access Point

Specifications	
Base Platform	Intel IXP 420/425
Clock Speed	533
Serial Port	RS-232 (DB9) Console Port RS-232 Pin Out (for ODM Request only)
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 2 (RJ-45 connector) Auto MDI/MDI-X enabled LAN /WAN : 2 (Support Passive Power Over Ethernet)
Mini PCI	4
Mini PCI Power Capacity	7W for 2 Top side socket 7W for 2 Back side socket
CF Socket	1
SDRAM	64 Mbytes /128Mbytes
Flash	16 Mbytes/32 Mbytes
5V Power Output	Provide 5V pins for application use (ex : FAN Control)
RTC	Support Real-time-clock

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JTAG reserved	On board connector to connect to off the shelf JTAG CPU emulator
PCB Dimensions	200 mm X 180 mm
Environmental & Mechanical Characteristics	
Operating Temperature	-40 °C ~ 85 °C
Storage Temperature	-40 °C ~ 85 °C
Operating Humidity	10% to 80% Non-Condensing
Storage Humidity	5% to 90% Non-Condensing
Power Consumption	3.84 W
Input Power	48 VDC
Connector	RJ 45 (Power Over Ethernet) , RS232 / DB9 (Consol)
Power Supply	AC Input : 110 – 220V AC Power DC Output : 48 VDC, 1A input
Unit Dimensions	200 x 180 (mm) (Width x Depth)