Networking and Servers > Network Appliance > ARM-based network appliances
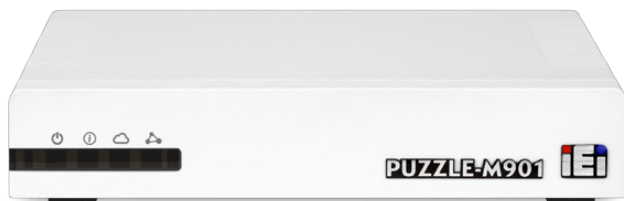
PUZZLE-M901

OpenWrt Network Appliance with Marvell® CN9130 Processor, up to 6 x2.5 GbE on Board with 1 x eMMC 4GB

Features

» Marvell® CN9130 quad-core Armv8 Cortex-A72 @ up to 2200 MHz

» Onboard 4GB DDR4

» Six 2.5GbE RJ-45 ports (three via Marvell CN9130; three via Marvell 88F8215)

» 4 GB eMMC; one console port (pin-header); one reset button

» LED indicators: status/power & WAN/LAN interface indicator

» Pre-installed OpenWrt

Specifications

Form Factor	
Form Factor	Desktop
System	
CPU	Marvell® CN9130 quad-core Armv8 Cortex-A72 @ up to 2200 MHz
Memory	System: 4G
Cooling method / System Fan	Active Fan
Physical Characteristics	
Dimensions (LxWxH) (mm)	166.4 x 145.7 x 34
Storage	
Storage	1 x M.2(NGFF) : 2242 M key M.2 PCIe Gen. 3 x2
	1 x eMMC : onboard 4 GB
I/O Interface	
Ethernet	6 x LAN :
	1 x 2.5GbE LAN integrated in CPU via PHY Aquantia AQR112R
	1 x 2.5GbE LAN integrated in CPU via PHY Aquantia AQR112C
	1 x 2.5GbE LAN integrated in CPU via PHY Aquantia AQR112
	1 x 2.5GbE LAN via Marvell 88F8215 (PHY: Aquantia AQR112R)
	1 x 2.5GbE LAN via Marvell 88F8215 (PHY: Aquantia AQR112C)
	1 x 2.5GbE LAN via Marvell 88F8215 (PHY: Aquantia AQR112)
I/O Interface	1 x External USB 3.2 Gen1x1
Environment	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 75°C (-4°F ~ 167°F)
Humidity	5~95% non-condensing, wet bulb: 27˚C
Certifications	
Safety & EMC	CE/FCC/BSMI (BSMI safety)/VCCI, LVD
OS Support	
OS Support	OpenWrt

Ordering Information

PUZZLE-M901-CN1-R10	Desktop Network Appliance with Marvell CN9130 Processor ,6 x 2.5GbE on Board 4GB eMMC & 1x M.2 slot, RoHS.

Packing List

1 x Power cord	1 x Power adapter

Why You Need Software Defined Router?

High Reliability, Performance and Availability

HIGH SCALABILITY
Rich open resource services to achieve any requirement

SUPER SPEED
Design with 2.5GbE and 10GbE ports for faster package transfer

FASTER TIME TO MARKET
Deploy network applications and services faster by leveraging open software packages

Get Your Office Ready for New Gen. Software Defined Router

The growing number of connected personal and IoT devices has led to an overall increase in network density. The PUZZLE-M902 is IEI's latest product series – Software Defined Router, which is pre-installed with OpenWrt and features high speed and high flexibility to optimize your network performance.
This series is integrated with 2.5GbE and 10GbE ports and the interfaces can be defined with various combination to meet your demands. Moreover, its function can also be expanded by open source applications supported in the OpenWrt community. It is ideally suited for a wide range of applications, such as SOHO and SMB networking infrastructure.

High-end Arm-based Platform with Marvell Quad-core SoC

Flexible High-speed Network Deployment

The Marvell CN9130 is a quad-core Armv8 Cortex-A72 System-on-chip (SoC). The high-performance processor offers a complete function and acceleration for networking and security applications. It can accelerate the packet processing for NAT, QoS and packet filtering, and offload the functions on multiple IPSec/SSL VPN tunneling.

High computing with quad-core SoC

tunneling

Accelerate NAT, QoS, packet filtering, and offload IPSec/ SSL VPN

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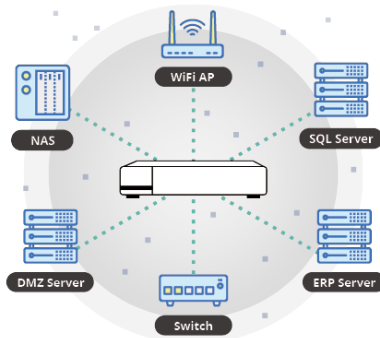
Built stability for multi-device connections

6 x 2.5 GbE
3 x 10 GbE

Super speed for package transfer

Customize Your Network with OpenWrt

The hottest open source project, OpenWrt, which is based on Linux-based embedded operating system and used on embedded devices to route network traffic. It uses the command line interface (ash shell) or the web interface (LuCI) to configure OpenWrt. Approximately 3,500 optional software packages can be installed through the opkg package management system. It provides detailed possibilities to configure common network-related functions, such as IPv4, IPv6, DNS, DHCP, VPN, shadowsocks, DLNA, routing, Dynamic DNS, firewall, NAT, port forwarding, file sharing via SAMBA, NFS, FTP, SFTP and MQ Telemetry Transport through Mosquitto.
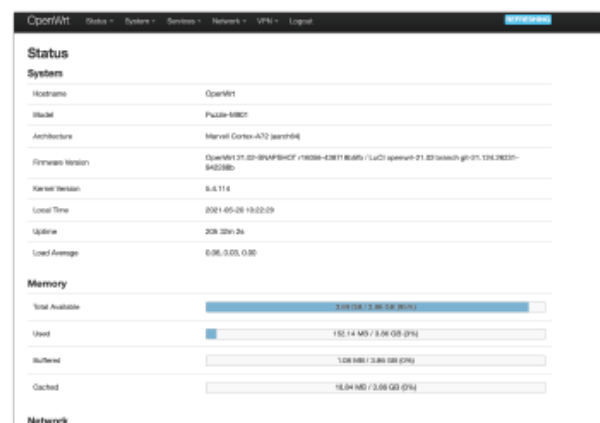
OpenWrt®
WIRELESS FREEDOM

The hottest open source project for router

3,500

Various software packages you can have

Simple and Visible Network Operation

Powered by OpenWrt, the PUZZLE-M902 provides a user-friendly web interface, a clear dashboard and port indicators to help you handle daily network management tasks. Users can not only efficiently manage all connected wires through OpenWrt OS in real time, but also configure firewall, VPN, security and advanced network functions.

Make Security Configuration Easier than Ever

There are multiple packages available in the OpenWrt package repository and designed with clear user interface to support IT developer for installing and deploying the security function of network. OpenVPN, a virtual private network (VPN), and Firewall3 (fw3) which uses netfilter/iptable rule builder for firewall applications, are two of the most popular packages for creating high reliable network security.
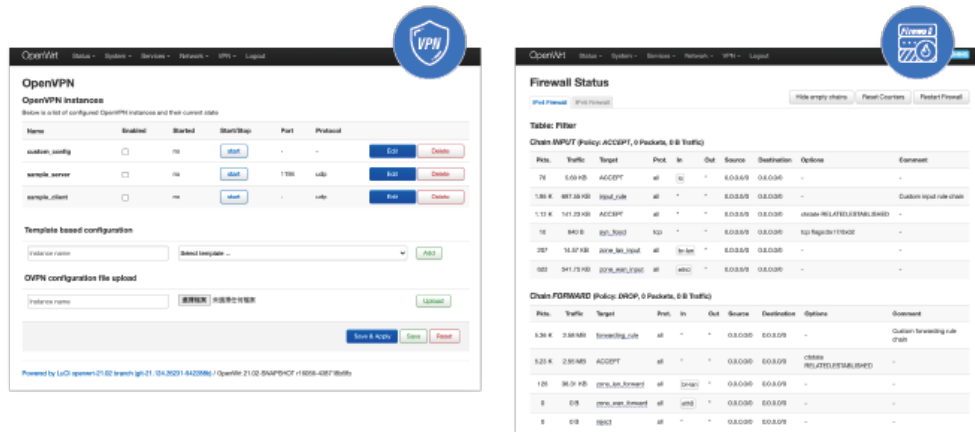
Connection Configuration

Dimensions (Unit: mm)