Pakedge Routers

Your router acts as the brain of your network, redirecting and assigning data to their proper destinations. To get the most out of your network you need a router that offers all the features required for a seamless and scalable A/V system.

Designed for A/V

Advanced Traffic Management

Easy to use

Scalable to any network size

Turbo-charged core processors

Enhanced Security

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Router Families

RE-Series

RK-Series

RE-Series

The RE-1 and RE-2 Media Routers bring the power and flexibility of enterprise networking to basic networks. Built with A/V networks in mind, the Pakedge RE line is developed with the performance and features required by today's demanding network appliances. Ideal for basic residential and commercial networks reliant on media streaming, the RE-1 and RE-2 is the perfect choice for whole-network media sharing.
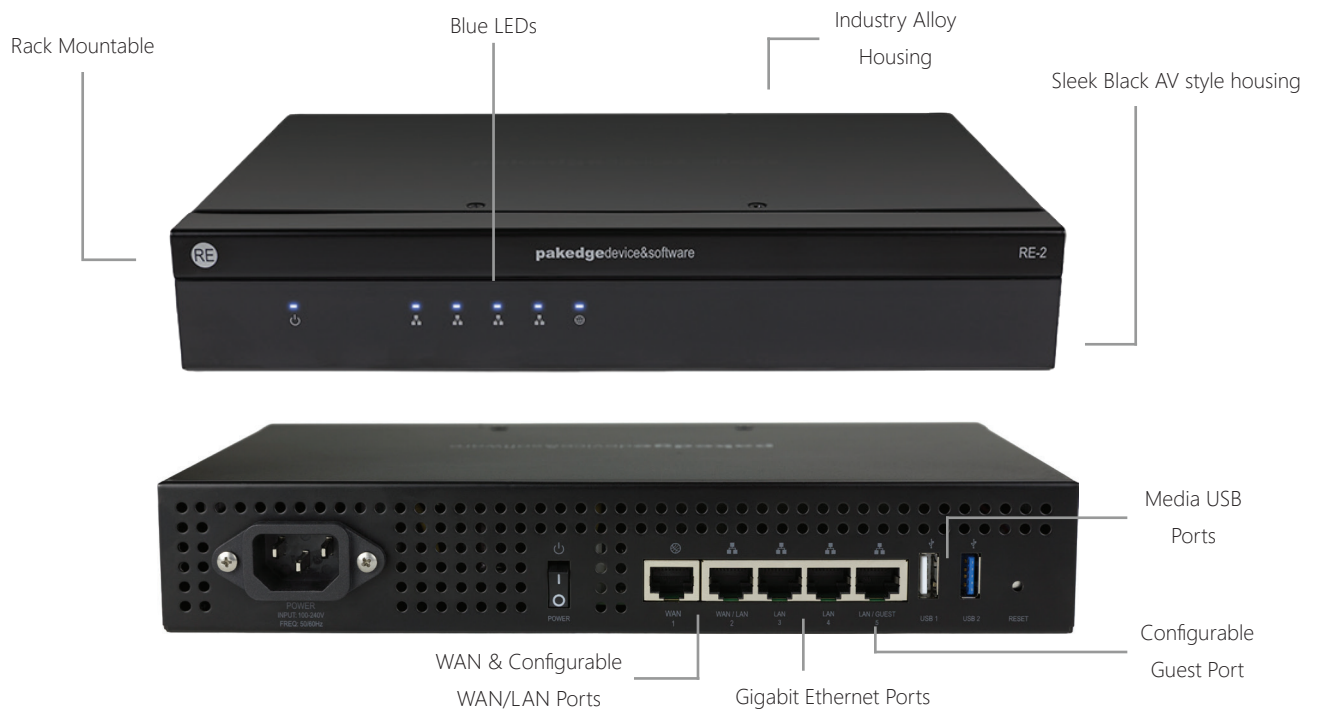
The RE-2 Media Router brings the same great features of the RE-1 router but also includes Pakedge Zones™. By enabling Pakedge Zones on your router, traffic that passes through the router is segmented off into different paths, which prevents cross network interference and allows multiple services to run at consistent speeds.

When to use an RE-Series Router

- Small to medium networks with small number of devices
- Residential or small office networks
- Networks requiring up to 300Mbps WAN throughput

	WAN Ports	LAN Ports	Total Ports	USB Port	VLANs	Pakedge Zones	Remote Access	Firewall	DNS	VPN	3 yr Warranty
RE Series											
RE-1	1/2*	3/4*	5	USB 2.0 - 1 USB 3.0 - 1	-	-	-	✓	✓	PPTP	✓
RE-2	1/2*	3/4*	5	USB 2.0 - 1 USB 3.0 - 1	✓	✓	✓	✓	Pakedge DNS	PPTP	✓

* LAN/WAN port is configurable to serve as either a LAN or WAN

Rack Mountable

Blue LEDs

Industry Alloy Housing

Sleek Black AV style housing

RE-2

Media USB Ports

Configurable Guest Port

WAN & Configurable WAN/LAN Ports

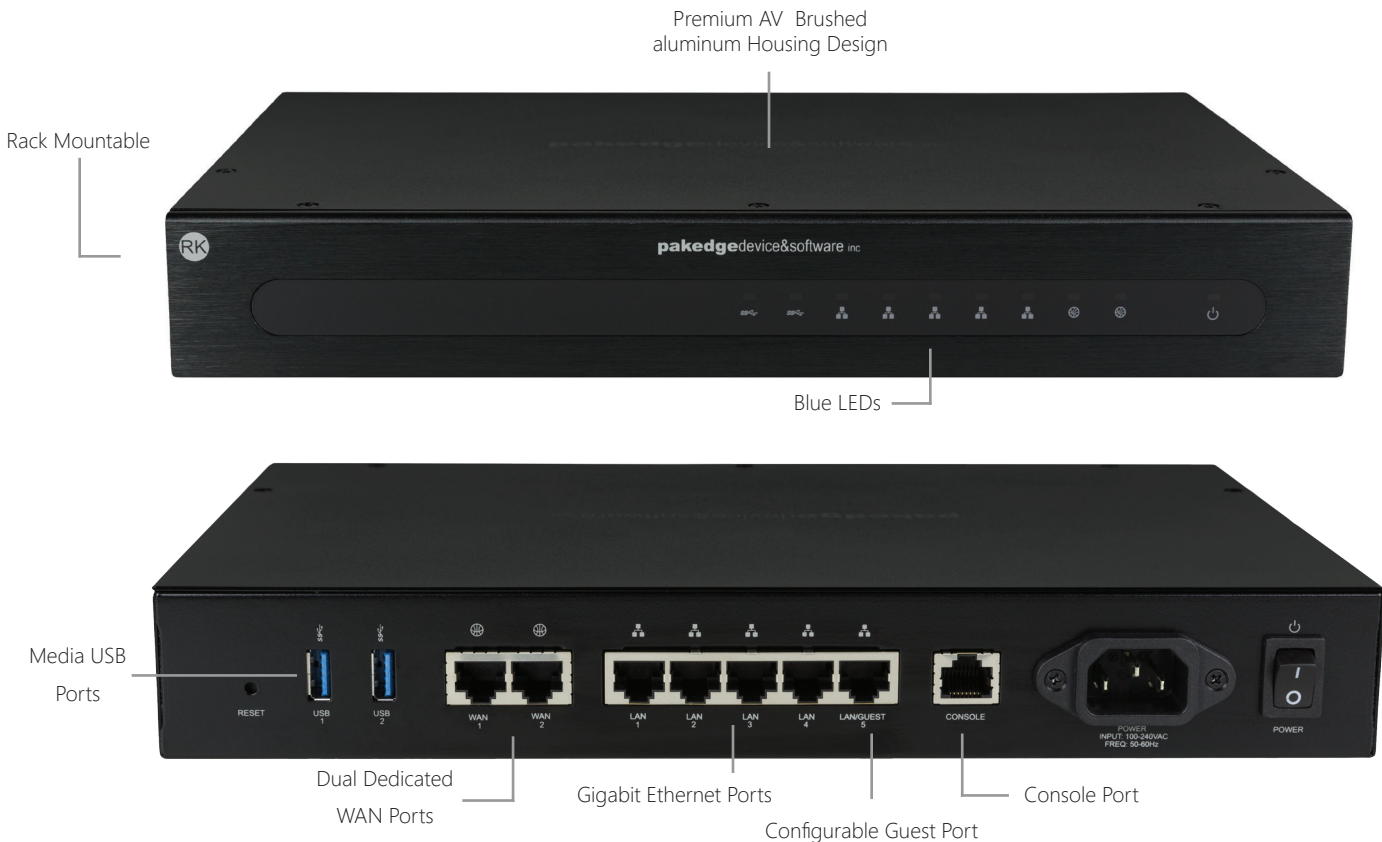Gigabit Ethernet Ports

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RK-Series

The RK-Series is built with all of the features and functionality of the RE-2, plus much more. The feature rich RK series of routers unlock the power of AV networks with a specially designed dual-core processor. Designed for 900+ Mbps LAN - WAN traffic throughput, and built for high performance AV networking, RK series routers are ideal for medium to large networks with multiple types of devices and access to high speed internet connections. Built for ease of use with a simple GUI, the RK-Series makes no compromises while ensuring a simple, problem-free setup.

When to use an RK-Series Router

- Medium to large networks
- Large residential or business networks
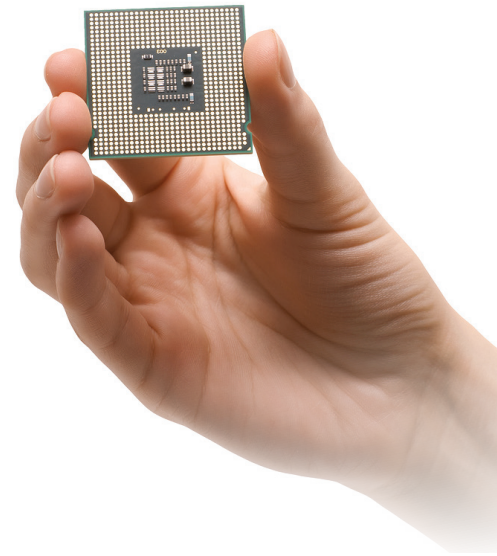- Networks requiring up to 900Mbps WAN throughput

	WAN Ports	LAN Ports	Total Ports	USB Port	VLANs	Pakedge Zones	Remote Access	Firewall	DNS	VPN	3 yr Warranty
RK Series											
RK-1	2	5	7	USB 3.0 - 2	✓	✓	✓	✓	Pakedge DNS	PPTP	✓
RK-2	2	5	7	USB 3.0 - 2	✓	✓	✓	✓	Pakedge DNS	PPTP, IPSec	✓

Premium AV Brushed aluminum Housing Design

Rack Mountable

Blue LEDs

Media USB Ports

Dual Dedicated WAN Ports

Gigabit Ethernet Ports

Configurable Guest Port

Console Port

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Key Router Features
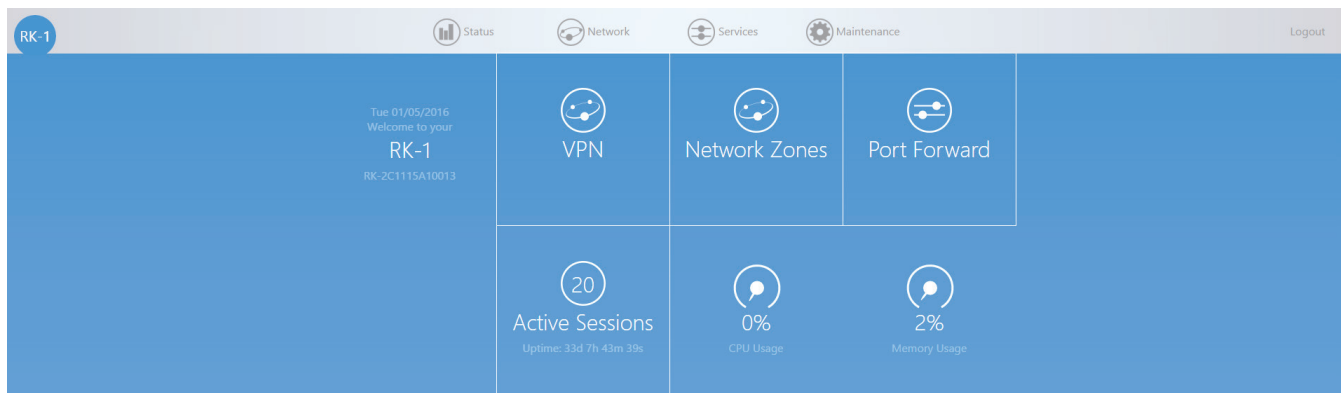
Enterprise Chipset

High performance networking starts at the core. Every Pakedge router is built with advanced processors designed specifically to handle high bandwidth, low latency multimedia traffic. From single processors to dual core designs capable of gigabit throughputs, Pakedge routers represent the gold standard in high performance AV networking.

Enhanced Security

Pakedge routers employ a variety of features to protect the security of your network. These features, when integrated with other Pakedge devices, provide an advanced multi-layer level of network security. These features include:

- Firewall – protects the network from unauthorized access
- Device access control lists – prevent specified devices from accessing the internal network
- Website access control – prevent network users from accessing user specified websites
- Virtual private network (VPN) – allow remote access to the network through a secure and encrypted connection. The RK-series routers incorporate Point to Point Tunnel Protocol (PPTP) VPN.
- Virtual DMZ – enables specified internal devices on the internal network to be placed outside of the firewall. This allows external users to access the device without having to access the local network.
- Dedicated guest network port – The last port can be configured to be a guest access port that only allows access to the Internet with no access to the local network

| RK-1 | Status | Network | Services | Maintenance | Logout |

Tue 01/05/2016
Welcome to your
RK-1
RK-2C1115A10013

VPN

Network Zones

Port Forward

20
Active Sessions
Uptime: 33d 7h 43m 39s

0%
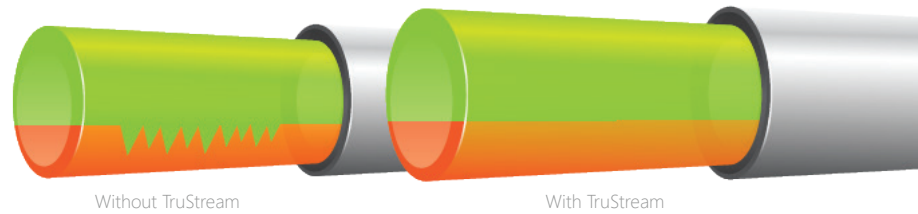CPU Usage

2%
Memory Usage

Simple

Pakedge Routers are designed with user and integrator in mind to provide the raw, enterprise-grade power needed for resource-intensive A/V networks – but without the complexity of traditional IT equipment. Simple, intuitive menus and easy-to-navigate configurations make setup simple. Cloud-based firmware updates and easy-to-use diagnostic tools and reports ensure ease of use even with this powerful equipment.

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Designed for A/V

Pakedge routers are specifically engineered to handle high bandwidth audio/video media. Our routers can handle anything that you can throw at it – whether it is fully uncompressed audio, or streaming 4k video content, we've got you covered.

TruStream Traffic Management

Pakedge routers incorporate TruStream™ technologies designed for seamless and efficient processing of multimedia traffic. This suite of technologies enhance speed, throughput, and traffic management and is ideal for systems with multicast and broadcast devices. These features include:

Without TruStream   With TruStream

- Traffic prioritization – traffic is prioritized and delivered by device, port, or media type based on user configurable specification. Latency sensitive applications like streaming video and VOIP telephony can be prioritized ahead of traffic from less sensitive devices.
- Multicast/broadcast traffic management – IGMP protocols prevent mult-cast traffic from overwhelming the network and slowing the system to a crawl. IGMP snooping enables Pakedge managed switches to identify multicast traffic throughout the network and only pass it to the nodes that need it. IGMP query only enables nodes in the network to be identified as those that want to receive multicast traffic.

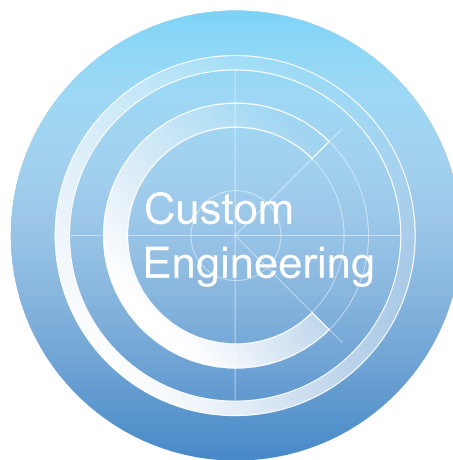| ZONE ID 1	ZONE ID 2	ZONE ID 3	ZONE ID 4	ZONE ID 5	ZONE ID 6
Management	Voice	Audio/Video	Automation	Data	Guest
High Priority	High Priority	Medium Priority	Medium Priority	Low Priority	Low Priority

Pakedge Zones™

The RE-2 and RK-Series support the use of Pakedge Zones™. Pakedge Zones simplify VLANs for A/V networks by breaking them into six subnetworks: management, voice, audio/video, automation, data, and guest. Pakedge Zones make traffic segmentation easy - allowing multiple traffic types and even broadcast traffic from devices like IP security cameras to exist on the network without interference. They prevent traffic from flooding your network so that latency sensitive traffic like VoIP can maintain optimal performance. Pakedge Zones are implemented in Pakedge managed switches and in the Pakedge wireless access points - allowing for a rapid network setup.

Secure Remote Access

RE and RK-Series routers are fully compatible with the BakPak Cloud Management System - allowing remote access, configuration, and updates - from anywhere in the world. RE-2 and RK-Series routers also allow users to remotely access their network through the Pakedge DNS Service. In addition, users can configure secure remote access for Pakedge Tech Support - allowing easy troubleshooting.

Custom
Engineering

Custom Engineering

Pakedge routers are Pakedge Custom Engineering-ready, allowing resellers and installers to create and lock in their own, customized "tried and true" configurations, best practices and co-branding for a simple, plug-and-play out of the box experience. This reduces installation errors and speeds up project deployments. For more information, please visit the Custom Engineering page (http://www.pakedge.com/technology/custom-engineering) or contact sales@pakedge.com for more information.

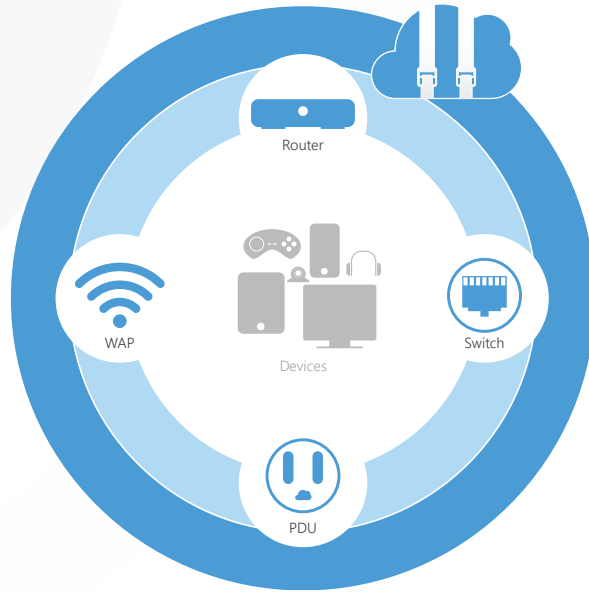For more information, please visit
www.pakedge.com/custom

AV Aesthetics

A truly luxurious home deserves the look and feel of devices designed from the ground-up with elegance in mind. Luxury design, high-quality materials, and cool blue LEDs give Pakedge switches a high-end A/V look and feel. Because of this focus on design, Pakedge Routers fit perfectly alongside any A/V equipment in a rack.

Router Specifications

	RE-1	RE-2	RK-1	RK-2
Port Density				
WAN Ports	1/2*	1/2*	2	2
LAN Ports	3/4*	3/4*	5	5
Total Ports	5	5	7	7
SFP Ports	-	-	-	-
USB Ports	USB 2.0 - 1 USB 3.0 - 2	USB 2.0 - 1 USB 3.0 - 2	USB 3.0 - 2	USB 3.0 - 2
Performance				
Firewall	✓	✓	✓	✓
VLANs	-	✓	✓	✓
Pakedge Zones	-	✓	✓	✓
Remote Access	-	✓	✓	✓
Power Consumption	15.4 W	15.4 W	15.4 W	15.4 W
QoS	✓	✓	✓	✓
STP	✓	✓	✓	✓
SSH	✓	✓	✓	✓
WEB	✓	✓	✓	✓
SNMP	✓	✓	✓	✓
Cloud Update	✓	✓	✓	✓
Power				
Input Voltage	100-240V AC, 50/60Hz			
Physical Specifications				
Dimensions	10.5 x 6.5 x 2	10.5 x 6.5 x 2	10.4 x 6.5 x 1.75in	10.4 x 6.5 x 1.75in
Weight	4lbs	4lbs	4 lbs	4 lbs
Operating temperature	0~40°C (32°~104°F)			
Storage temperature	-40 ~ 70° (-40°~158°F)			
Operating Humidity	10% - 90% non-condensing			
Certifications	FCC, CE, RoHS			
Standards	IEEE802.3 10BASE-T, IEEE802.3u, 100BASE-TX, IEEE802.3x full du-plex flow control, IEEE802.3ab, 1000BASE-T			

* LAN/WAN port is configurable to serve as either a LAN or WAN

Router

WAP

Devices

Switch

PDU

Connect+ Certified

The Pakedge Connect+ Platform is a carefully integrated system of switches, routers, wireless, power management and software technologies, designed specifically to work with each other to deliver seamless, scalable, and reliable multimedia networking performance. When unified with the BakPak Cloud Management System, the functionality of the Pakedge Connect+ Platform is extended with cloud-enabled services such as monitoring and management of all connected devices anywhere, any time, and from any device.

Why Pakedge?

- Purpose-built for A/V networking applications
- Enterprise-level performance
- Seamless, scalable, and reliable

- End-to-end network system solutions
- Free lifetime technical support
- Free lifetime firmware updates and functionality support

Warranty

Pakedge Device & Software offers a 3-year limited warranty. Pakedge Device & Software will repair or replace products that do not perform as specified within 3 years of the date of purchase due to a defect in materials, workmanship, or functionality.

About Pakedge Device & Software

Pakedge is an industry leading manufacturer of high performance end-to-end networking platforms for residential and commercial A/V applications. Recognized by industry peers and winner of the prestigious CEPro Brand Leader award for Networking in 2013 and 2014, Pakedge specializes in integrating high performance engineering innovations, operational simplicity, and systems engineering to develop technology that enables customers to unleash the power of their network.

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