IPCopper USC8032: 4-in-1 Network Monitor

The USC8032 4-in-1 network appliance combines high-speed PCAP performance with firewalling, monitoring and keywords. Real-time rules run through the packet data as it comes in to control when and how the packets are capture and recorded, as well as whether they are allowed through or not.

Real-Time Network Monitoring	• Use rules and keywords to comprehensively monitor network traffic for performance, security and other issues in real time. • Sort packets into separate virtual collection "buckets." A single bucket may be fed by multiple rules. • Five separate triggers per bucket plus negative trigger. • Buckets may collect statistics in one minute increments; collect packet headers; allow full packet storage; and/or traversal / packet relay (in firewall mode).
Packet Capture	• Continuous and triggered, filtered and unfiltered packet capture. • Headers and payloads or just headers. • GPS synchronized timestamps to the 1/10,000,000 sec.
Firewall	• Up to 10,000 rules and buckets to allow or block packets based on parameters (MAC, IP, VLAN, VLAN2, port, protocol and frame size) and keywords with up to 256 dynamic Boolean switches. • Use triggers to dynamically engage additional or alternate rules should certain conditions be detected (e.g., bandwidth utilization out of a certain range, the presence of "red-flag" keywords, etc.). • Chained actions to modify Boolean switches and other actions.*
Keyword Signature Detection	• Over 10,000 keywords may be simultaneously processed. • Signature length: 3 to 64 characters. • Search entire packet payload for matches. • May use standalone or combine with rules or other keywords to create "nested" and/or overlapping keyword/rule structures. • Case insensitive with optional foreign language tables.* • Keywords/signatures may be used independently or in conjunction with other available rule-based parameters (MAC, IP, VLAN, VLAN2, port protocol and frame size). Each rule may incorporate up to eight keywords. • Use singly or in multiples to detect files traversing the network. • May optionally use non-English language characters.*
System & User Management	• Built-in web-server for web-based user access to system and database. • Tiered and granular privilege-based user management. • Logs user actions. • May set locks for some individual elements.
User-configurable storage	• 48TB internal storage, with user-configurable partitions. • PCAP partitions operate using circular storage.
ICOM*	• System to interconnect multiple USC8032 units for increased storage and processing power.* • Traffic merging.*
Data retrieval	• Export headers or headers + payload to PCAP format. • May initiate multiple concurrent retrieval requests.

*Feature availability is firmware-dependent. Some features require multi-unit configurations.

GPS Time Synchronization	• Continuously synchronizes to broadcast GPS time. • Self-calibrating clock.
Automatic bypass (aka, failover passthrough)	• Depending on the firmware and/or hardware, a unit may have no bypass, standard hard-wired bypass or software autobypass. • Typically, IPCopper USC8032s combine port pairs with standard hard-wired bypass with ports pairs with no bypass or software bypass with no bypass. • Any non-standard bypass features must be ordered at the time of purchase.
Security features	• 20,000 bit dual encryption. • Password-protected access. • Sealed, tamper-proof all-metal enclosure.

*Feature availability is firmware-dependent. Some features require multi-unit configurations.

Mechanical / Physical Specifications

Network interfaces	• 2 x 10GBASE-SR or 10GBASE-LR (specify at time of order) • 4 x RJ-45 Ethernet
Capacity	• 48 TB
Power supply	• 90 ~ 264 VAC, 47 Hz ~ 63 Hz
Redundant power inputs	• Standard AC, 12V SLA battery and general purpose 12V DC • Mini-Fit JR 5557 8-position connector • Recommended battery: 12V SLA; floating charge voltage of 13.5V; >18Ah
Power consumption	• Peak: 300W, Inrush: 500W (AC 110V) • Typical: 150-175W (AC 110V)
Environmental	• Storage temperature: 0 °C to +50 °C • Operating temperature: 0 °C to +30 °C*
Dimensions	• 52 lb shipping weight • 17.5 in x 18 in x 3.5 in (excluding ears)
Noise profile	• Variable noise level • Typically under 65dB at ambient temperature of under 75° F, measured one meter from front of chassis when unobstructed
Enclosure	• Rackmountable • Sealed, all-metal tamper-proof enclosure • Removable external GPS antenna

For more information on the USC8032 or any of our other products, please contact sales@ipcopper.com or call 855-290-1557.

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