Allegro Network Multimeter 800 Series

Hardware Datasheet

Analysis and Debugging Tool for Network Administrators

- Analyzes and correlates all metadata from L2 to L7

- Real-time live data and back-in-time analysis

- Retrospective and selective pcap extraction

- 100% reliable full capture-to-disk solution

- Active email alert

- Easy installation on a mirror port, tap or as a network bridge

- Simple licensing

- Development and support in Germany

Designed for 1 G ISPs, Corporate, Campus and Datacenter Networks
The Allegro 800 Series fits perfectly into all environments with Gigabit only connectivity. It allows you to monitor the last 10,000 seen IP addresses and up to 4 million connections for retroactive debugging and investigation. The Allegro 800-P is the portable version (weighing less than 3 kg), whereas the Allegro 800-RM is a 1U rack solution.

Real-time Visibility and Statistics for all Connections
The Allegro 800 provides granular visibility and selective packet filtering across L2 to L7 in real-time and history mode. The web interface offers comprehensive overviews as well as detailed statistics for network quality, IPs, MACs, VLANs, Multicast, QoS, TCP, TLS, RTP, Profinet, VoIP and much more.

Traffic Recorder and Back-in-Time Playback
The Allegro 800 Series is equipped with a back-in-time function that enables precise selection of the recorded information. Such data can be extracted with a simple click. In addition, selected data can be individually reimported into the network, to recreate specific events or security incidents, e.g. with IDS / IPS systems.

In-Memory Database and Ring Buffer
The Allegro 800 features multiple versions with different memory and SSD storage. The memory size for processing historical data in the In-memory database is depending on the model, 16 to 128 GB. The ring buffer, for recording the traffic of a link or its selected traffic, enables the selective extraction of historical packets. The internal ring buffer uses SSDs with 960 GB and is expandable up to 3.84 TB depending on the model.

Table 1	Allegro 800 Series Specifications

Feature	Allegro 800S-P, 800M-P, 800L-P	800S-RM, 800M-RM, 800L-RM
Order ID	105P, 106P, 107P	105R, 106R, 107R
Rack units	1 (half width)	1 (full width)
Size (L/H/W) in mm	264 x 43 x 226	439 x 43 x 249
Weight	2 kg	4 kg
Power supply	84 W, external	200 W, internal
Airflow	Front-to-back or Back-to-front[1]	Front-to-back
Packaging	Portable soft shell case	Cardboard box
Internal database memory	S: 16 GB, M: 64 GB, L: 128 GB	
Management port	1 x 10 / 100 / 1000Base-T out of band 1 x WiFi 802.11n via USB adapter 1 x 1000Base-T IP KVM remote management	
Monitor ports	7 x 10 / 100 / 1000Base-T, 2 x SFP[2], SR + LR SFPs included	
Maximum throughput[3]	4 GBit/s full decode with 3 GBit/s capture rate	
Average throughput[4]	Full decode: 2 GBit/s, capture only: 3 GBit/s	
Average packets per second[4]	Full decode: 500k pps, capture only: 1 million pps	
Max parallel connections	1 million concurrent open connections	
In-memory DB storage[5]	16 GB stores the last 10,000 active IPs and the last 4 million connections. 64 / 128 GB increase the memory capacity or the duration of the active IPs and connections by 4 / 8 times.	
Jumbo frames	9,000 bytes	
Hardware warranty	1 or 3 years, longer as option	
1U rack kit	Included	
Operating temperature	+10° C to +40° C (+50° F to +104° F), 8 % to 90 % (non-condensing)	
Non-operating temperature	-40° C to +70° C (-40° F to +158° F), 5 % to 95 % (non-condensing)	
Certifications	CE, FCC, RoHS	

Table 2	Allegro 800 Order IDs

Order ID	Product Description
105P	Allegro 800S-P: 16 GB In-memory DB, 960 GB SSD, up to 5,000 TBW
106P	Allegro 800M-P: 64 GB In-memory DB, 1.92 TB SSD, up to 9,000 TBW
107P	Allegro 800L-P: 128 GB In-memory DB, 3.84 TB SSD, up to 15,000 TBW
105R	Allegro 800S-RM: 16 GB In-memory DB, 960 GB SSD, up to 5,000 TBW
106R	Allegro 800M-RM: 64 GB In-memory DB, 1.92 TB SSD, up to 9,000 TBW
107R	Allegro 800L-RM: 128 GB In-memory DB, 3.84 TB SSD, up to 15,000 TBW

[1] Rackmount kit can be installed on both ends, depending on airflow requirements
[2] SFP ports require Intel branded modules
[3] Under ideal testing conditions
[4] Real-world datacenter throughput scenario
[5] Real-world datacenter traffic