



Allegro Network Multimeter Product Matrix

Allegro Packets
Network Multimeter



Rackmount Series

- ✓ Granular network (performance) visibility from Layer 2 to 7
- ✓ Real-time protocol & connection analysis
- ✓ High-performance packet capturing
- ✓ Selective and retrospective pcap extraction
- ✓ Enterprise-grade VoIP & RTP analysis
- ✓ 3rd Party integrable (REST-API, Syslog, Net-flow, SNMP-traps, InfluxDB)
- ✓ Fully customizable and expandable to fit your needs
- ✓ Small footprint (1U/2U) options available
- ✓ Quick and easy commissioning
- ✓ Regular customer-driven updates
- ✓ Development and support in Germany
- ✓ Free of function-, user- and volumetric based licensing



Allegro Network Multimeter Functional Specifications

Appliance	800			x200		x310				x410				x510			
	S-RM	M-RM	L-RM	1200	3200	1310	3310	5310	7310	1410	3410	5410	7410	1510	3510	5510	7510
Order ID	105R	106R	107R	111	121	A1310	A3310	A5310	A7310	A1410	A3410	A5410	A7410	A1510	A3510	5510	A7510
Capture ports	<ul style="list-style-type: none"> • 7 x 10 / 100 / 1000Base-T • 2 x SFP¹ • Gigabit SR + LR SFPs included • 1 x WiFi 6e USB adapter • 2 x USB3² 			<ul style="list-style-type: none"> • 3 x 10 / 100 / 1000Base-T • 2 x 1 / 10GBase-T • 2 x SFP+¹ • 1 x WiFi 6e USB adapter • 2 x USB3² 		<ul style="list-style-type: none"> • 2 x SFP+¹ • 1 x WiFi 6e USB adapter • 2 x USB3² 				<ul style="list-style-type: none"> • no default extension ports • 1 x WiFi 6e USB adapter • 4 x USB3² 							
Capture port extension options	none			1 extension slot		<ul style="list-style-type: none"> • 2 extension slots • 1 OCP slot 				<ul style="list-style-type: none"> • 6 extension slots³ • 1 OCP slot 				4 extension slots ⁴			
Built-in packet ring buffer storage	960 GB	1.92 TB	3.84 TB	as option 1 TB up to 51.2 TB		configurable as option with external HDD / SSDs (memory limited only by the max. number of HDD / SSD x largest size available)											
HDD / SSD extension slots	none			<ul style="list-style-type: none"> • 1 x internal m.2 • 1 x internal HDD or • 2 x internal SSDs 		10 x 2.5" SATA / U.2 slots				12 x 3.5" SATA3 / U.2 slots (base version only 4 U.2, able to use all 12 with options)				36 x 3.5" SATA3 / SAS3 slots, optional 4 x with U.2 support			
In-memory database	16 GB	64 GB	128 GB	default: 16 GB	default: 64 GB	<ul style="list-style-type: none"> • default 192 GB • extendable up to 6 TB, depending on module availability 				<ul style="list-style-type: none"> • default 192 GB • extendable up to 3 TB, depending on module availability 							
Max. capture rate (capture only) ⁵ depending on installed SSD	4 Gbit/s			20 Gbit/s	40 Gbit/s	40 Gbit/s	80 Gbit/s	160 Gbit/s	240 Gbit/s	40 Gbit/s	80 Gbit/s	160 Gbit/s	240 Gbit/s	40 Gbit/s	80 Gbit/s	160 Gbit/s	200 Gbit/s ⁶
Average throughput (full decode) ⁵	2 Gbit/s			10 Gbit/s	20 Gbit/s	20 Gbit/s	40 Gbit/s	80 Gbit/s	120 Gbit/s	20 Gbit/s	40 Gbit/s	80 Gbit/s	120 Gbit/s	20 Gbit/s	40 Gbit/s	80 Gbit/s	120 Gbit/s
Average packets per second ⁵ (capture / full decode)	1 Mpps / 500 kpps			4 / 1.2 Mpps	4 / 4 Mpps	10 / 4 Mpps	15 / 7 Mpps	30 / 15 Mpps	60 / 30 Mpps	10 / 4 Mpps	15 / 7 Mpps	30 / 15 Mpps	60 / 30 Mpps	10 / 4 Mpps	15 / 7 Mpps	30 / 15 Mpps	60 / 30 Mpps
Concurrent connections	1 million					4 million											
Jumbo frames	supported up to 9,000 Bytes																
Management ports	<ul style="list-style-type: none"> • 1 x 10 / 100 / 1000Base-T • 1 x WiFi 802.11n via USB adapter • 1 x 1000Base-T IP KVM remote management 					<ul style="list-style-type: none"> • 1 x 1 G / 10GBase-T • option for 1 x 40 / 100 G management via QSFP28 • 1 x WiFi 802.11n via USB adapter • 1 x 1000Base-T IP KVM remote management 											
End of sales	not before Dec 31, 2024					not before Dec 31, 2027											
End of support	not before Dec, 31, 2029					not before Dec, 31, 2032											

¹ SFP / SFP+ ports require Intel branded SFP modules.

² Up to 16 WiFi adapters with USB hub.

³ Limitations exist based on configuration; high speed extension cards are 100 G and above or quad-port 25 G.

• Config. 1: max. 2 x high speed extension cards + 12 x hybrid NVME / SATA.

• Config. 2: max. 2 x high speed extension cards and 4 x default extension cards + 4 x hybrid NVME / SATA + 8 x dedicated SATA (or + 8 x NVME / SATA + 0 x SATA).

• Config. 3: max. 4 x high speed extension cards + 4 x hybrid NVME / SATA + 8 x dedicated SATA (or + 8 x NVME / SATA + 0 x SATA)

⁴ Limitation: max. 3 x high speed extension cards total (100 G and above); max. 2 quad-port cards.

⁵ Real-world datacenter throughput scenario.

⁶ Limited by 4 x SSDs.

Additional product information

Allegro Packets GmbH
info@allegro-packets.com
+49 341 / 59 16 43 53



Rackmount Units Physical Specifications

Appliance	800			x200		x310				x410				x510			
	S-RM	M-RM	L-RM	1200	3200	1310	3310	5310	7310	1410	3410	5410	7410	1510	3510	5510	7510
Rack units	1									2				4			
Size (W / H / D) in mm	439 x 43 x 249					437 x 43 x 597				437 x 89 x 648				437 x 178 x 699			
Weight (depending on installed HDDs / SDDs)	4 - 5 kg					20 - 30 kg				20 - 32 kg				40 - 80 kg			
Max. power consumption	200 W					<ul style="list-style-type: none"> • 800 W (100 - 127 Vac) • 860 W (200 - 240 Vac) 				<ul style="list-style-type: none"> • 1000 W (100 - 127 Vac) • 1200 W (200 - 240 Vac) 							
AC 100 -240V support	yes																
Redundant power supply	no					yes											
Rack kit & airflow	included, front to rear airflow																
Operating temperature and humidity	<ul style="list-style-type: none"> • +10° C to +35° C (+50° F to +95° F) • 8 % to 90 % (non-condensing) 																
Non-operating temperature and humidity	<ul style="list-style-type: none"> • -40° C to +60° C (-40° F to +140° F) • 5 % to 95 % (non-condensing) 																

Memory Extension Options Order ID

Memory	1200	3200	x310	x410	x510
64 GB	310	-	-	-	-
128 GB	311	320	-	-	-
256 GB	312	321	-	-	-
384 GB	-	-	A-x310-384GB	A-x410-384GB	A-x510-384GB
512 GB	313	322	-	-	-
576 GB			A-x310-576GB	A-x410-576GB	A-x510-576GB
768 GB	-	-	A-x310-768GB	A-x410-768GB	A-x510-768GB
1152 GB	-	-	A-x310-1152GB	A-x410-1152GB	A-x510-1152GB
1536 GB	-	-	A-x310-1536GB	A-x410-1536GB	A-x510-1536GB
3072 GB	-	-	A-x310-3072GB	A-x410-3072GB	A-x510-3072GB
6144 GB	-	-	A-x310-6144GB	A-x410-6144GB	-



Extension Options Regular Port Extension Cards

Type	Order ID	Remarks
Allegro x410 4x NVME SATA support	Ax410-SATA-NVME	cabling for additional 4 x NVME instead of 12 x SATA support, 8 x NVME total
Allegro x410 4x NVME support	Ax410-4xNVME	reroute cabling for additional 4 x NVME instead of 1 regular extension ports, can be booked twice or once in combination with Ax410-SATA-NVME
Allegro x510 NVME support	Ax510-4xNVME	extends backplane and internal cabling with additional U.2 support on 4 x 3.5 HDD slots
SFP+ 2-port extension card	A-P-2xSFP+	1 / 10 G support
SFP+ 4-port extension card	A-P-4xSFP+	1 / 10 G support
SFP+ 2-port extension card	A-P-2xSFP+NS	nanosecond timestamp support, 100 M / 1 / 10 G support
SFP+ 2-port extension card	A-P-2xSFP+GPS	GPS based nanosecond timestamp support, 100 M / 1 / 10 G support
10GBase-T 2-port extension	A-P-2x10GBaseT	1 / 2.5 / 5 / 10 G support
10 G 2-port bypass card	A-P-2x10GSRBYP	LC short range bypass card
1000Base-T 4-port extension	A-P-4x1GBaseT	100 M / 1 G support
1000Base-T PoE+ 4-port	A-P-4x1GPOE	active PoE+ card
1000Base-T 4-port bypass card	A-P-4x1GBYP	bypass copper extension card
QSFP 2-port extension card	A-P-2xQSFP	40 G support
QSFP28 2-port extension card	A-P-2xQSFP28	100 G support
QSFP28 2-port high speed extension card	A-P-2xQSFP28H	200 G support, requires x310 / x410 / x510
QSFP28 management card	A-P-MGT-QSFP28	adds support for 1 x 40 G or 100 G management port
QSFP56 2-port extension card	A-P-2xQSFP56	100 / 200 G support
SFP28 2-port extension card	A-P-2xSFP28	1 / 10 / 25 G support
SFP28 4-port extension card	A-P-4xSFP28	1 / 10 / 25 G support
USB WiFi 6e capture adapter	A-P-USB-WIFI6E	WiFi 6e packet capture adapter, requires USB 3.0 port

Extension Options OCP Slot Extension Cards (x310 and x410 only)

Type	Order ID	Remarks
OCP SFP+ 4-port extension card	A-OCP-4xSFP+	supports 1 / 10 G SFP+
OCP SFP28 4-port extension card	A-OCP-4xSFP28	supports 1 / 10 / 25 G SFP28
OCP SFP28 4-port management card	A-OCP-MGT-QSFP28	adds support for 1 x 40 or 100 G management port



Extension Options Allegro x200 m.2 Extension

Size	Order ID	Remarks
2 TB	402	up to 10 Gbit/s full packet capturing, guarantee for 3,600 TB written data
4 TB	409	up to 10 Gbit/s full packet capturing, guarantee for 5,100 TB written data

Extension Options Allegro x200 HDD / SSD Extension

Size	Order ID	Max. qty	Remarks
1 TB HDD	403	1	up to 700 Mbit/s full packet capturing
4 TB HDD	404	1	up to 1.2 Gbit/s full packet capturing
10 TB HDD	405	1	up to 1.2 Gbit/s full packet capturing
16 TB HDD	406	1	up to 1.2 Gbit/s full packet capturing
6.4 TB SSD	407	2	up to 20 Gbit/s full packet capturing, guarantee for 35,000 TB written data
12.8 TB SSD	408	2	up to 20 Gbit/s full packet capturing, guarantee for 70,000 TB written data
8 TB SATA SSD	410	2	sustained 1 Gbit/s full packet capturing (up to 4 Gbit/s for ~150 seconds), guarantee for 2,800 TB written data
25.6 TB SATA SSD	411	2	up to 20 Gbit/s full packet capturing, guarantee for 140,000 TB written data

Extension Options Allegro x310 HDD / SSD

Type	Order ID	Remarks
1 TB SATA HDD	Ax310-1TBHDD	up to 700 Mbit/s full packet capturing
2 TB U.2 SSD	Ax310-2TBSSD	up to 10 Gbit/s full packet capturing, guarantee for 3,600 TB written data
6.4 TB U.2 SSD	Ax310-6.4TBSSD	up to 40 Gbit/s full packet capturing, guarantee for 35,000 TB written data
12.8 TB U.2 SSD	Ax310-12.8TBSSD	up to 40 Gbit/s full packet capturing, guarantee for 70,000 TB written data
25.6 TB U.2 SSD	Ax310-25.6 TBSSD	up to 40 Gbit/s full packet capturing, guarantee for 140,000 TB written data
8 TB SATA SSD	Ax310-8TBSSD	sustained 1 Gbit/s full packet capturing (up to 4 Gbit/s for ~150 seconds), guarantee for 2,800 TB written data

Extension Options Allegro x410 and x510 HDD / SSD

Type	Order ID	Remarks
10 TB SATA HDD	Ax410-10TBHDD Ax510-10TBHDD	up to 1.2 Gbit/s full packet capturing
16 TB SATA HDD	Ax410-16TBHDD Ax510-16TBHDD	up to 1.2 Gbit/s full packet capturing
1 - 22 TB SATA HDD	available on request	on project basis, up to 1.2 Gbit/s full packet capturing
18 TB SATA HDD	Ax410-18TBHDD Ax510-18TBHDD	high-speed dual-arm SATA HDD, up to 1.2 Gbit/s full packet capturing
2 TB U.2 SSD	Ax410-2TBSSD Ax510-2TBSSD	up to 10 Gbit/s full packet capturing, guarantee for 3,600 TB written data
6.4 TB U.2 SSD	Ax410-6.4TBSSD Ax510-6.4TBSSD	up to 40 Gbit/s full packet capturing, guarantee for 35,000 TB written data
12.8 TB U.2 SSD	Ax410-12.8TBSSD Ax510-12.8TBSSD	up to 40 Gbit/s full packet capturing, guarantee for 70,000 TB written data
25.6 TB U.2 SSD	Ax410-25.6TBSSD Ax510-25.6TBSSD	up to 40 Gbit/s full packet capturing, guarantee for 140,000 TB written data
8 TB SATA SSD	Ax410-8TBSSD Ax510-8TBSSD	sustained 1 Gbit/s full packet capturing (up to 4 Gbit/s for ~150 seconds), guarantee for 2,800 TB written data



Extension Options SFP Modules

All Allegro Network Multimeter interface cards require Intel branded modules.

Type	Order ID	Remarks
SFP+ 1 G / 10 G SR	A-SFP+-SR	dual speed 1 / 10 G SFP+ short range multimode, LC up to 300 m via multimode OM3 @ 2000MHz fiber (MMF)
SFP+ 1 G / 10 G LR	A-SFP+-LR	dual speed 1 / 10 G SFP+ long range singlemode, LC up to 10 km via singlemode OS2 G.652 fiber (SMF)
SFP+ 10GBase-T	A-SFP+-T	10GBase-T Cu SFP+ RJ45 module
SFP+ 10 G BIDI	A-SFP+-BIDI1	10 G SFP+ BIDI 10 km, T ^x 1270 / R ^x 1330 nm, singlemode, one LC connector
SFP+ 10 G BIDI	A-SFP+-BIDI2	10 G SFP+ BIDI 10 km, T ^x 1330 / R ^x 1270 nm, singlemode, one LC connector
QSFP 40 G SR	A-QSFP-SR	40 G QSFP SR, MPO connector, up to 100 m via multimode OM3 @ 2000MHz fiber (MMF)
QSFP 40 G LR	A-QSFP-LR	40 G QSFP LR, LC connector, up to 10 km via singlemode OS2 G.652 fiber (SMF)
QSFP 40 G SR BIDI	A-QSFP-SR-BD	40 G QSFP BIDI, LC connector, up to 100m with OM4 fiber (MMF)
QSFP28 100 G SR	A-QSFP28-SR	100 G QSFP28 SR, MPO connector, up to 100 m via multimode OM4 @ 4700MHz fiber (MMF)
QSFP28 100 G LR	A-QSFP28-LR	100 G QSFP28 LR, LC connector, up to 10 km via singlemode OS2 G.652 fiber (SMF)
SFP 1000Base-T	A-SFP-T	1000Base-T Cu SFP RJ45 module
SFP 100FX	A-SFP-FX	100FX SFP module, only for Allegro 800 or nanosecond timestamp card
SFP28 25 G SR	A-SFP28-SR	25 G SFP28 SR up to 100 m via multimode OM4
SFP28 25G LR	A-SFP28-LR	25 G SFP28 LR up to 10 km via singlemode OS2 G.652 fiber (SMF)
QSFP56 200 G SR	A-QSFP56-SR	200 G QSFP56 SR, MPO connector, up to 70 m via multimode OM4 fiber (MMF)
QSFP56 200 G LR	A-QSFP56-LR	200 G QSFP56 LR, LC connector, up to 10 km via singlemode OS2 G.652 fiber (SMF)

Warranty Options

All warranty and service extensions include hardware warranty and all software updates. The first year is always included in the purchase price. This table lists the order IDs for each available warranty extension.

Warranty	800			x200		x310	x410	x510
	S-RM	M-RM	L-RM	1200	3200	A1310 / A3310 / A5310 / A7310	A1410 / A3410 / A5410 / A7410	A1510 / A3510 / A5510 / A7510
1 year	608S	608M	608L	611	621		-GS1 ⁷	
discounted 3 years	608S-3	608M-3	608L-3	611-3	621-3		-GS3 ⁷	
discounted 5 years	608S-5	608M-5	608L-5	611-5	621-5		-GS5 ⁷	
discounted 2 year extension ⁸	607S	607M	607L	610	620		-IGS2 ⁷	
discounted 4 year extension ⁸	607S-4	607M-4	607L-4	610-4	620-4		-IGS4 ⁷	

⁷ Order ID is the device # + service extension code. The Order ID to extend the initial service agreement by 2 years (3years total) of an Allegro 5410 would be A5410-IGS2.

⁸ Only available within 30 days after initial purchase.

Additional product information

Allegro Packets GmbH
info@allegro-packets.com
+49 341 / 59 16 43 53



About Allegro Packets

The network analysis specialist Allegro Packets offers innovative troubleshooting and analysis products to solve network issues with the Allegro Network Multimeter range of appliances. The innovative features of Allegro Packets products meet all requirements for information infrastructures. They are developed for both rapid troubleshooting and back-in-time analysis for long-term network quality assurance. Customers of Allegro Packets include enterprises, data centres, IT service providers, system houses and ISPs around the world.

Internet allegro-packets.com | **Email** info@allegro-packets.com | **Phone** +49 341 59 16 43 53

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