Allegro Network Multimeter Product Matrix
Rackmount Units

Allegro Packets
Network Multimeter

Allegro Network Multimeter Functional Specifications

Appliance	800			x200		x300			x400			x500		
	S-RM	M-RM	L-RM	1200	3200	1300	3300	5300	1400	3400	5400	1500	3500	5500
Order ID	105R	106R	107R	111	121	112	122	141	114	123	136	113	130	140
						(two models, "base" and "-4TB-10U2")			(two models, "base" and "-4TB-10U2")					
Capture ports	• 7 x 10 / 100 / 1000Base-T • 2 x SFP[1] • Gigabit SR + LR SFPs included			• 3 x 10 / 100 / 1000Base-T • 2 x 1 / 10GBase-T • 2 x SFP+[1]		no default ports								
Capture port extension options	none			1 extension slot		3 extension slots			• base version: 7[2] • "-4TB-24U2" Version: 1 or 4[3]			7 extension slots[2]		
Internal packet ring buffer storage	960 GB	1.92 TB	3.84 TB	as option 1 TB up to 25.6 TB		-								
HDD / SSD extension slots	none			• 1 x internal m.2 • 1 x internal HDD or 2 x internal SSDs		• base Version: 10 x 2.5" SATA, 2 x with additional U.2 support • "-4TB-10U2" Version: 10 x U.2 slots			• base Version: 12 x 3.5" SATA3 / SAS3, optional 4 x with U.2 support • "-4TB-24U2" Version: 24 x U.2 slots			• 36 x 3.5" SATA3 / SAS3, optional 4 x with U.2 support		
In-memory database	16 GB	64 GB	128 GB	default: 16 GB	default: 64 GB	default: 64 GB • base Version: up to 2 TB • "-4TB-10U2" Version: up to 4 TB			default: 64 GB • base Version: up to 2 TB • "-4TB-24U2" Version: up to 4 TB			default: 64 GB • extendable up to 2 TB		
				extendable up to 512 GB										
Max. capture rate (capture only)[4] depending on installed SSD	4 Gbit/s			20 Gbit/s	40 Gbit/s	20 Gbit/s	50 Gbit/s	100 Gbit/s	20 Gbit/s	50 Gbit/s	100 Gbit/s	20 Gbit/s	50 Gbit/s	100 Gbit/s
Average throughput (full decode)[4]	2 Gbit/s			10 Gbit/s	20 Gbit/s	10 Gbit/s	25 Gbit/s	50 Gbit/s	10 Gbit/s	25 Gbit/s	50 Gbit/s	10 Gbit/s	25 Gbit/s	50 Gbit/s
Average packets per Second[4] (capture / full decode)	500 kpps / 1 Mpps			4 / 1.2 Mpps	4 / 4 Mpps	4 / 1.5 Mpps	12 / 4 Mpps	25 / 8 Mpps	4 / 1.5 Mpps	12 / 4 Mpps	25 / 8 Mpps	4 / 1.5 Mpps	12 / 4 Mpps	25 / 8 Mpps
Concurrent connections	1 million					4 million								
Jumbo frames	supported up to 9,000 Bytes													
Management ports	• 1 x 10 / 100 / 1000Base-T • 1 x WiFi 802.11n via USB adapter • 1 x 1000Base-T IP KVM remote management					• 1 x 1 G / 10GBase-T • 1 x WiFi 802.11n via USB adapter • 1 x 1000Base-T IP KVM remote management								

[1] SFP / SFP+ ports require Intel branded SFP modules.
[2] Limitation: max. 4 x quad-port cards (212, 216, 219, 222, 224, 225) and max. 5 x 100 G and above cards (221, 224).
[3] 4 extension cards are possible if only 16 U.2 SSDs are used. Limitation: max. 2 x 100 G and above or quad 25 G cards (221, 224, 225).
[4] Real-world datacenter throughput scenario.

Additional product information

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

Allegro Packets
Network Multimeter

Rackmount Units Physical Specifications

Appliance	800			x200		x300			x400			x500		
	S-RM	M-RM	L-RM	1200	3200	1300	3300	5300	1400	3400	5400	1500	3500	5500
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 647			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					base Version: 500 W "-4TB-10U2" Version: 750 W			base Version: 600 W "-4TB-24U2" Version: 1200 W			1200 W		
AC 100 -240V support	yes													
Redundant power supply	no					yes								
Rack kit & airflow	included, front to rear airflow													
Operating temperature and humidity	• +10° C to +35° C (+50° F to +95° F) • 8 % to 90 % (non-condensing)													
Non-operating temperature and humidity	• -40° C to +60° C (-40° F to +140° F) • 5 % to 95 % (non-condensing)													

Memory Extension Options Order ID

Memory	1200	3200	x300, x400, x500
64 GB	310	-	-
128 GB	311	320	340
256 GB	312	321	341
512 GB	313	322	342
1 TB	-	-	343
2 TB	-	-	344
4TB	-	-	345 (available for x300 "-4TB-10U2" and x400 "-4TB-24U2" model)

Extension Options Extension Cards

Type	Order ID	Remarks
Allegro x400 backplane U.2 support	181	extends Allegro x400 backplane with additional U.2 support on 4 x 3.5 HDD slots, blocks 2 x port extensions, not available for "-4TB-24U2"
Allegro x500 backplane U.2 support	182	extends Allegro x500 backplane with additional U.2 support on 4 x 3.5 HDD slots, blocks 2 x port extensions
Allegro x500 PCIe 4.0 SAS controller	183	allows capture rates of up to 80 Gbit/s for 36 HDDs in one Allegro x500 chassis, blocks 1 x port extension, recommended for option 452
SFP+ 2-port extension card	211	1 / 10 G support
SFP+ 4-port extension card	212	1 / 10 G support
SFP+ 2-port extension card	213	nanosecond timestamp support, 100 M / 1 / 10 G support
SFP+ 2-port extension card	214	GPS based nanosecond timestamp support, 100 M / 1 / 10 G support
10GBase-T 2-port extension	215	1 / 2.5 / 5 / 10 G support
1000Base-T 4-port extension	216	100 M / 1 G support
SFP28 2-port extension card	217	1 / 10 / 25 G support
QSFP 2-port extension card	218	40 G support
1000Base-T 4-port	219	bypass card
10 G 2-port Bypass card	220	LC short range bypass card
QSFP28 2-port extension card	221	100 G support
1000Base-T PoE+ 4-port	222	active PoE+ card
QSFP56 2-port extension card	224	100 / 200 G support
SFP28 4-port extension card	225	1 / 10 / 25 G support

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

Extension Options Allegro x300 HDD / SSD

Size	Order ID	Max. qty base / "-4TB-10U2" version	Remarks
2.5" 1 TB HDD	420	10 / 0	up to 700 Mbit/s full packet capturing per HDD
2.5" 2 TB U.2 SSD	422	2 / 10	up to 10 Gbit/s full packet capturing, guarantee for 3,600 TB written data
2.5" 6.4 TB U.2 SSD	423	2 / 10	up to 20 Gbit/s full packet capturing, guarantee for 35,000 TB written data
2.5" 12.8 TB U.2 SSD	424	2 / 10	up to 20 Gbit/s full packet capturing, guarantee for 70,000 TB written data
2.5" 8 TB SATA SSD	425	10 / 0	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 x400 and x500 HDD / SSD

Type	Order ID	Max. qty x400 / "-4TB-24U2" / x500	Remarks
3.5" 2 TB U.2 SSD	441	4 / 24 / 4	up to 10 Gbit/s full packet capturing, guarantee for 3,600 TB written data, requires option 181 (Allegro x400) or 182 (Allegro x500)
3.5" 1 TB HDD	442	12 / 0 / 36	up to 1.2 Gbit/s full packet capturing
3.5" 4 TB HDD	443	12 / 0 / 36	up to 1.2 Gbit/s full packet capturing
3.5" 10 TB HDD	444	12 / 0 / 36	up to 1.2 Gbit/s full packet capturing
3.5" 16 TB HDD	445	12 / 0 / 36	up to 1.2 Gbit/s full packet capturing
3.5" 6.4 TB U.2 SSD	446	4 / 24 / 4	up to 20 Gbit/s full packet capturing, guarantee for 35,000 TB written data, requires option 181 (Allegro x400) or 182 (Allegro x500)
3.5" 12.8 TB U.2 SSD	447	4 / 24 / 4	up to 20 Gbit/s full packet capturing, guarantee for 70,000 TB written data, requires option 181 (Allegro x400) or 182 (Allegro x500)
3.5" 14 TB HDD	452	12 / 0 / 36	high-speed dual-arm SAS HDD, identified as 2 x 7 TB HDDs, up to 2 Gbit/s full packet capturing, recommended to order ID 183 if more than 20 HDDs are installed in Allegro x500
3.5" 8 TB SATA SSD	453	12 / 0 / 36	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	700	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	701	dual speed 1 / 10 G SFP+ long range singlemode, LC up to 10 km via singlemode OS2 G.652 fiber (SMF)
SFP+ 10GBase-T	702	10GBase-T Cu SFP+ RJ45 module
SFP+ 10 G BIDI	703	10 G SFP+ BIDI 10 km, ^{Tx}1270 / ^{Rx}1330 nm, singlemode, one LC connector
SFP+ 10 G BIDI	704	10 G SFP+ BIDI 10 km, ^{Tx}1330 / ^{Rx}1270 nm, singlemode, one LC connector
QSFP 40 G SR	710	40 G QSFP SR, MPO connector, up to 100 m via multimode OM3 @ 2000MHz fiber (MMF)
QSFP 40 G LR	711	40 G QSFP LR, LC connector, up to 10 km via singlemode OS2 G.652 fiber (SMF)
QSFP28 100 G SR	720	100 G QSFP28 SR, MPO connector, up to 100 m via multimode OM4 @ 4700MHz fiber (MMF)
QSFP28 100 G LR	721	100 G QSFP28 LR, LC connector, up to 10 km via singlemode OS2 G.652 fiber (SMF)
SFP 1000Base-T	730	1000Base-T Cu SFP RJ45 module
SFP 100FX	731	100FX SFP module, only for Allegro 800 or nanosecond timestamp card
SFP28 25 G SR	740	25 G SFP28 SR up to 100 m via multimode OM4
SFP28 25G LR	741	25 G SFP28 LR up to 10 km via singlemode OS2 G.652 fiber (SMF)
QSFP56 200 G SR	750	200 G QSFP56 SR, MPO connector, up to 70 m via multimode OM4 fiber (MMF)
QSFP56 200 G LR	751	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		x300			x400			x500		
	S-RM	M-RM	L-RM	1200	3200	1300	3300	5300	1400	3400	5400	1500	3500	5500
1 year	608S	608M	608L	611	621	613	623	636	617	625	638	615	631	641
discounted 3 years	608S-3	608M-3	608L-3	611-3	621-3	613-3	623-3	636-3	617-3	625-3	638-3	615-3	631-3	614-3
discounted 5 years	608S-5	608M-5	608L-5	611-5	621-5	613-5	623-5	636-5	617-5	625-5	638-5	615-5	631-5	641-5
discounted 2 year extension[5]	607S	607M	607L	610	620	612	622	635	616	624	637	614	630	640
discounted 4 year extension[5]	607S-4	607M-4	607L-4	610-4	620-4	612-4	622-4	635-4	616-4	624-4	637-4	614-4	630-4	640-4

[5] Only available within 30 days after initial purchase.

Appliance Upgrade Option

Available only for units with existing support. The Allegro Network Multimeter needs to be shipped to the Allegro Packets office for modification.

Remarks	Order ID
Allegro x300 upgrade: Allegro 1300 to Allegro 3300	122-UPG
Allegro x300 upgrade: Allegro 3300 to Allegro 5300	135-UPG
Allegro x300 upgrade: Allegro 1300 to Allegro 5300	135-UPG2
Allegro x400 upgrade: Allegro 1400 to Allegro 3400	123-UPG
Allegro x400 upgrade: Allegro 3400 to Allegro 5400	136-UPG
Allegro x400 upgrade: Allegro 1400 to Allegro 5400	136-UPG2
Allegro x500 upgrade: Allegro 1500 to Allegro 3500	130-UPG
Allegro x500 upgrade: Allegro 3500 to Allegro 5500	140-UPG
Allegro x500 upgrade: Allegro 1500 to Allegro 5500	140-UPG2

Additional product information

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

Allegro Packets
Network Multimeter

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
©2022-v2 Allegro Packets GmbH. All rights reserved.