

### Allegro Network Multimeter Functional Specifications

| Appliance  | 200   | 500   |      | 800   |   |         | 1000  | 3000  |
|--|---|---|------|---|---|---------|---|---|
|  |   | M   | L    | S-P   | M-P   | L-P     |   |   |
| Order ID   | 101   | 102   | 103  | 105P  | 106P  | 107P    | 110   | 120   |
| Capture ports  | • 2 x 10 / 100 / 1000Base-T   | 4 x 10 / 100 / 1000Base-T   |      | • 7 x 10 / 100 / 1000Base-T<br>• 2 x SFP <sup>1</sup><br>• Gigabit SR + LR SFPs included                        |   |         | • 3 x 10 / 100 / 1000Base-T<br>• 2 x 1 / 10GBase-T<br>• 2 x SFP+ <sup>1</sup> |   |
| In-memory database   | 2 GB  | 4 GB  | 8 GB | 16 GB   | 64 GB   | 128 GB  | • default: 16 GB<br>• extendable up to 512 GB                                 | • default: 64 GB<br>• extendable up to 512 GB |
| Internal packet ring buffer storage                                  | • no internal storage<br>• external via USB3                                      | 500 GB  | 1 TB | 960 GB  | 1.92 TB   | 3.84 TB | optional from 1 TB up to 12.8 TB  |   |
| Max. capture rate (capture only)                                     | 2 Gbit/s  | 4 Gbit/s  |      | 4 Gbit/s  |   |         | up to 20 Gbit/s   |   |
| Average throughput (full decode) <sup>2</sup>                        | 2 Gbit/s  | 2 Gbit/s  |      | 2 Gbit/s  |   |         | 10 Gbit/s   | 20 Gbit/s                                     |
| Average packets per second <sup>2</sup> (capture only / full decode) | 500,000 pps / 300,000 pps   | 1 Mpps / 500,000 pps  |      | 1 Mpps / 500,000 pps  |   |         | 4 Mpps / 1.2 Mpps   | 4 Mpps / 4 Mpps                               |
| Concurrent connections   | 100,000   | 200,000   |      | 1 million   |   |         |   |   |
| Jumbo frames   | supported up to 9,000 Bytes   |   |      |   |   |         |   |   |
| Management ports   | • 1 x 10 / 100 / 1000Base-T via USB adapter<br>• 1 x WiFi 802.11n via USB adapter | • 1 x 10 / 100 / 1000Base-T<br>• 1 x WiFi 802.11n via USB adapter |      | • 1 x 10 / 100 / 1000 Base-T<br>• 1 x WiFi 802.11n via USB adapter<br>• 1 x 1000Base-T IP KVM remote management |   |         |   |   |
| Extension options  | 1 x USB3 for external storage   | 2 x USB3 for external storage                                     |      |   | • 1 x internal M.2 SSD slot<br>• 1 x internal extension slot<br>• 2 x USB3 for external storage |         |   |   |

<sup>1</sup> SFP / SFP+ ports require Intel branded SFP modules.

<sup>2</sup> Real-world datacenter throughput scenario.

#### Additional product information

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



## Portable Units Physical Specifications

| Appliance                              | 200  | 500   |   | 800 |  |     | 1000 | 3000                         |
|--|--|---|---|-----|--|-----|------|------------------------------|
|  |  | M   | L | S-P | M-P  | L-P |      |                              |
| Size (W / H / D) in mm                 | 150 x 25 x 81  | 148 x 44 x 118  |   |     | 264 x 43 x 226   |     |      |                              |
| Weight                                 | 260 g  | 1 kg  |   |     | 2 kg   |     |      |                              |
| Power consumption (typical / max.)     | 20 W / 36 W  | 20 W / 40 W   |   |     | 40 W / 84 W  |     |      | 60 W / 150 W / 100 W / 150 W |
| Packaging                              | portable soft shell case   |   |   |     |  |     |      |                              |
| 1U rack kit                            | -  | -   |   |     | included, front-to-rear or rear-to-front airflow   |     |      |                              |
| Operating temperature and humidity     | <ul style="list-style-type: none"> <li>+10°C to +40°C (+50°F to +104°F)</li> <li>8 % to 90 % (non-condensing)</li> </ul>     | <ul style="list-style-type: none"> <li>-20°C to 50°C (-4°F to 122°F) 0.7 m/s airflow</li> <li>8 % to 90 % (non-condensing)</li> </ul> |   |     | <ul style="list-style-type: none"> <li>+10°C to +40°C (+50°F to +104°F)</li> <li>8 % to 90 % (non-condensing)</li> </ul> |     |      |                              |
| Non-operating temperature and humidity | <ul style="list-style-type: none"> <li>-40° C to +70° C (-40° F to +158° F)</li> <li>5 % to 95 % (non-condensing)</li> </ul> |   |   |     |  |     |      |                              |

## Memory Extension Options Allegro 1000 & Allegro 3000

| Appliance        | 1000 (16 GB per default) |           |           |           | 3000 (64 GB per default) |           |           |
|------------------|--------------------------|-----------|-----------|-----------|--------------------------|-----------|-----------|
|                  | to 64 GB                 | to 128 GB | to 256 GB | to 512 GB | to 128 GB                | to 256 GB | to 512 GB |
| Memory extension |                          |           |           |           |                          |           |           |
| Order ID         | 310                      | 311       | 312       | 313       | 320                      | 321       | 322       |

## Options for M.2 and Internal Extension Slot Allegro 1000 & Allegro 3000

| Type                         | Order ID | Description   |
|------------------------------|----------|---|
| M.2 2 TB                     | 402      | 2 TB up to 10 Gbit/s full packet capturing, guarantee for 3,600 TB written data |
| M.2 4 TB                     | 409      | 4 TB up to 10 Gbit/s full packet capturing, guarantee for 5,100 TB written data |
| 1 TB HDD                     | 403      | up to 700 Mbit/s full packet capturing  |
| 6.4 TB SSD                   | 407      | up to 20 Gbit/s full packet capturing, guarantee for 35,000 TB written data     |
| 12.8 TB SSD                  | 408      | up to 20 Gbit/s full packet capturing, guarantee for 70,000 TB written data     |
| 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                        |
| 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   |

## SFP Modules

All Allegro Network Multimeter interface cards require Intel branded modules. The Allegro 800 includes 1 G SR and LR optics.

| Type             | Order ID | Description  |
|------------------|----------|--|
| SFP+ 1 / 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 / 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, Tx1270 / Rx1330 nm, singlemode, one LC connector                                 |
| SFP+ 10 G BIDI   | 704      | 10 G SFP+ BIDI 10 km, Tx1330 / Rx1270 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 (ID 213 and 214, page 2)           |
| SFP28 25 G SR    | 740      | 25 G SFP28 SR up to 100 m via multimode OM4  |
| SFP28 25 G 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                                 | 200   | 500   |       | 800    |        |        | 1000  | 3000  |
|--|-------|-------|-------|--------|--------|--------|-------|-------|
|  |       | M     | L     | S-P    | M-P    | L-P    |       |       |
| 1 year                                   | 602   | 604   | 606   | 608S   | 608M   | 608L   | 611   | 621   |
| discounted 3 years                       | 602-3 | 604-3 | 606-3 | 608S-3 | 608M-3 | 608L-3 | 611-3 | 621-3 |
| discounted 5 years                       | 602-5 | 604-5 | 606-5 | 608S-5 | 608M-5 | 608L-5 | 611-5 | 621-5 |
| discounted 2 year extension <sup>3</sup> | 601   | 603   | 605   | 607S   | 607M   | 607L   | 610   | 620   |
| discounted 4 year extension <sup>3</sup> | 601-4 | 603-4 | 605-4 | 607S-4 | 607M-4 | 607L-4 | 610-4 | 620-4 |

<sup>3</sup> 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, datacenters, IT service providers, system houses and ISPs around the world.

**Internet** [allegro-packets.com](http://allegro-packets.com) | **Email** [info@allegro-packets.com](mailto:info@allegro-packets.com) | **Phone** +49 341 59 16 43 53

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