

DLAP-4000 Series

Embedded System supporting FHFL dual-width PEG slot with 8th/9th Generation Intel® Core™ i7/i5/i3 in LGA1151 Socket

Features

- NVIDIA® Quadro® PEG card support
- 8th/9th Gen Intel® Core™ i7/i5/i3 processor
- Dual SODIMMs for up to 32GB DDR4 non-ECC memory (dependent on CPU)
- 1x DVI, 1x HDMI, 1x DP (from CPU), additional display outputs from PEG cards
- 1x Mini PCIe slot for Wi-Fi/Bluetooth or LTE module, 1x M.2 M key supporting 2280 SATA SSD module, 1x PCIe x16 slot for PEG card
- 300W/500W Flex ATX PSU



Software Support

- Windows 10 IoT Enterprise CBB 64-bit
- Ubuntu 16.04 LTS

Optional Accessories

- 3.5" SATA HDD, 2.5" SATA SSD/HDD, M.2 2280 SATA SSD
- Wireless Module
Wi-Fi/Bluetooth or 4G LTE wireless kit (w/ antenna)

Ordering Information

| Model | CPU | Memory |
|---------------------|------------------------|------------------|
| DLAP-4001/M8G/[PEG] | Intel® Core™ i7-9700E | 8GB non-ECC DDR4 |
| DLAP-4002/M8G/[PEG] | Intel® Core™ i5-9500E | 8GB non-ECC DDR4 |
| DLAP-4003/M8G/[PEG] | Intel® Core™ i3-9100E | 8GB non-ECC DDR4 |
| DLAP-4004/M8G/[PEG] | Intel® Core™ i7-9700TE | 8GB non-ECC DDR4 |
| DLAP-4005/M8G/[PEG] | Intel® Core™ i5-9500TE | 8GB non-ECC DDR4 |
| DLAP-4006/M8G/[PEG] | Intel® Core™ i3-9100TE | 8GB non-ECC DDR4 |
| DLAP-4007/M8G/[PEG] | Intel® Core™ i7-8700 | 8GB non-ECC DDR4 |
| DLAP-4008/M8G/[PEG] | Intel® Core™ i5-8500 | 8GB non-ECC DDR4 |
| DLAP-4009/M8G/[PEG] | Intel® Core™ i3-8100 | 8GB non-ECC DDR4 |
| DLAP-400A/M8G/[PEG] | Intel® Core™ i7-8700T | 8GB non-ECC DDR4 |
| DLAP-400B/M8G/[PEG] | Intel® Core™ i5-8500T | 8GB non-ECC DDR4 |
| DLAP-400C/M8G/[PEG] | Intel® Core™ i3-8100T | 8GB non-ECC DDR4 |

PEG Card Options

| PEG | Model | Power | CUDA® Cores | Graphics Memory |
|---------|--------------------------|-------|-------------|-----------------|
| RTX4000 | NVIDIA® Quadro® RTX 4000 | 160W | 2304 | GDDR6 8GB |
| RTX5000 | NVIDIA® Quadro® RTX 5000 | 265W | 3072 | GDDR6 16GB |
| RTX6000 | NVIDIA® Quadro® RTX 6000 | 295W | 4608 | GDDR6 24GB |
| RTX8000 | NVIDIA® Quadro® RTX 8000 | 295W | 4608 | GDDR6 48 GB |

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Specifications

| Model | DLAP-4000 | | | |
|-----------------------|---|-----------------------------|-----------------------------|-----------------------------|
| Processor | Intel® Core™ i7-9700E, 2.6GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (8C/8T) Intel® Core™ i5-9500E, 3.0GHz, 9M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-9100E, 3.1GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (4C/4T) Intel® Core™ i7-9700TE, 1.8GHz, 12M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (8C/8T) Intel® Core™ i5-9500TE, 2.2GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-9100TE, 2.2GHz, 6M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (4C/4T) Intel® Core™ i7-8700, 3.2GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/12T) Intel® Core™ i5-8500, 3.0GHz, 9M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-8100, 3.6GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Core™ i7-8700T, 2.4GHz 12M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/12T) Intel® Core™ i5-8500T, 2.1GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-8100T, 3.1GHz, 6M Cache, 35W TDP, LGA1151, DDR4 2400MHz support (4C/4T) | | | |
| Chipset | Intel® H310 Chipset | | | |
| Memory | Non-ECC DDR4 2666/2400MHz, 2x SO-DIMM, up to 32GB (dependent on CPU) system memory | | | |
| PEG Card Support | NVIDIA® Quadro® RTX 4000 | NVIDIA® Quadro® RTX 5000 | NVIDIA® Quadro® RTX 6000 | NVIDIA® Quadro® RTX 8000 |
| I/O Interfaces | | | | |
| Display | 1x DVI-D connector (rear), resolution up to 1920 x 1200 @ 60 Hz 1x DP connector (rear), resolution up to 4096 x 2304 @ 60 Hz 1x HDMI connector (rear) resolution up to 4096 x 2160 @ 30 Hz Additional display output from PEG cards | | | |
| Ethernet | 2x GbE (Realtek RTL8111G) | | | |
| Serial Ports | 1x RS-232/422/485, 4x RS-232 | | | |
| USB | 4x USB 3.1 Gen1 ports, 2x USB 2.0 ports | | | |
| DIO | 1x 8-bit GPIO | | | |
| Mini PCIe | 1x Mini PCIe slot (USB 2.0 and PCIe x1) | | | |
| M.2 | 1x M.2 M key (SATA 6Gb/s) | | | |
| Expansion Slot | 1x PCIe x16 slot | | | |
| Audio | Mic-in, Line-out, Line-in | | | |
| TPM 2.0 | Optional | | | |
| Storage | | | | |
| 2.5" SATA | 2x 2.5" SATA 6Gb/s internal drive bays | | | |
| Mechanical | | | | |
| Dimensions | 220 x 300 x 150 mm (W x D x H) | | | |
| Power Supply | | | | |
| AC Input | 100 to 240 VAC | | | |
| Output Rating | 500W | 500W | 500W | 500W |
| Environmental | | | | |
| Operating Temperature | 0°C to 50°C | 0°C to 40°C | 0°C to 40°C | 0°C to 40°C |
| Storage Temperature | -20°C to 60°C | | | |
| Humidity | 5% to 90%, non-condensing | | | |
| Vibration | Operating: 1Grms, 5-500Hz, 3 axes (with 2.5" SSD and PEG card) Non-operating: 2Grms, 5-500Hz, 3 axes | | | |
| Shock | Operating: 20G, 11ms duration, half sine Non-operating: 30G, 11ms duration, half sine | | | |
| EMC | EN55032/35, EN61000-6-2/-4, CE, FCC Part 15B Class B | | | |
| Safety | UL/cUL, CB | | | |