

# DLAP-3000-CF Series

*Embedded System supporting MXM Graphics Module with 8<sup>th</sup>/9<sup>th</sup> Generation Intel® Core™ i7/i5/i3 in LGA1151 Socket*

## Features

- ADLINK MXM Graphics module support (Type A/B, up to 120W)
- 8<sup>th</sup>/9<sup>th</sup> Gen Intel® Core™ i7/i5/i3, Celeron® processor
- Dual SODIMMs for up to 64GB DDR4 non-ECC memory (dependent on CPU)
- DisplayPort (2 from CPU, 4 from MXM)
- 1x M.2 E key supporting 1630 or 2230 for Wi-Fi/Bluetooth module, 1x M.2 B key supporting 2242 or 2280 for SATA storage module
- Reliable Molex type 12V DC-in connector
- 1x Intel® i219-LM and 3x Intel® i210-AT



## Software Support

- Win10 IoT Enterprise SAC 64bit
- Ubuntu 18.04.1 LTS 64bit

## Optional Accessories

- CPU cooler: 32-20495-0000
- CPU cooler bracket 32-50015-0100-A0
- MXM cooler for P1000/P2000: 32-20797-0200-A0
- MXM cooler for P3000/P5000: 32-20823-0020-A0
- MXM cooler for T1000: 32-20830-0200-A0
- MXM cooler for RTX3000: 32-20823-1100-A0
- 12V/240W adaptor: 31-62164-0010-A0
- Wall Mount Bracket 34-34546-0000-A0 2pcs
- Wifi Kit INTEL AC9260 Non-VPRO 91-95266-0010

## Ordering Information

Model	MXM Support	Chipset	DC-in
DLAP-3000-CFP1	EGX-MXM-P1000	H310	12V
DLAP-3000-CFP2	EGX-MXM-P2000	H310	12V
DLAP-3000-CFP12	EGX-MXM-P1000/2000/ T1000/RTX3000 (not incl.)	H310	12V
DLAP-3000-CFP3	EGX-MXM-P3000	H310	12V
DLAP-3000-CFP5	EGX-MXM-P5000	H310	12V
DLAP-3000-CFP35	EGX-MXM-P3000/5000 (not incl.)	H310	12V
DLAP-3000-CFT1	EGX-MXM-T1000	H310	12V
DLAP-3000-CFT3	EGX-MXM-RTX3000	H310	12V

# DLAP-3000-CF

## Specifications

Model	DLAP-3000-CFP1	DLAP-3000-CFP2	DLAP-3000-CFT1	DLAP-3000-CFT3	DLAP-3000-CFP3	DLAP-3000-CFP5
	DLAP-3000-CFP12*				DLAP-3000-CFP35*	
MXM Support	EGX-MXM-P1000	EGX-MXM-P2000	EGX-MXM-T1000	EGX-MXM-RTX3000	EGX-MXM-P3000	EGX-MXM-P5000
Processor	Intel® Core™ i7-9700E, 2.6GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (8C/8T) Intel® Core™ i7-9700TE, 1.8GHz, 12M Cache, 35W 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™ i5-9500TE, 2.2GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-9100E, 3.1GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Core™ i3-9100TE, 2.2GHz, 6M Cache, 35W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Core™ i7-8700, 3.2GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/12T) Intel® Core™ i7-8700T, 2.4GHz 12M Cache, 35W 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™ i5-8500T, 2.1GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-8100, 3.6GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Celeron® G4900, 3.1GHz, 2M Cache, 54W TDP, LGA1151, DDR4 2400MHz support (2C/2T) Intel® Celeron® G4900T, 2.9GHz, 2M Cache, 35W TDP, LGA1151, DDR4 2400MHz support (2C/2T)					
Chipset	Intel® H310 Chipset					
Memory	Non-ECC DDR4 2666/2400MHz, 2x SO-DIMM, up to 64GB (dependent on CPU)					
<b>I/O Interfaces</b>						
Display	6x DisplayPort (2 from CPU, 4 from MXM)					
Ethernet	1x GbE (Intel® i219-LM), 3x GbE (Intel® i210-AT)					
Serial Ports	1x RS-232/422/485, 1x RS-232					
USB	4x USB 3.2 Gen1 x1 ports, 4x USB 2.0 ports					
M.2	1x M.2 E key supporting 1630 or 2230 for Wi-Fi/BT module, 1x M.2 B key supporting 2242 or 2280 for SATA storage module					
Digital IO	Default: w/o DIO Optional: 1x DI/DO with 4 in, 4 out Note: Optional DIO, Audio and TPM 2.0 must be chosen together.					
Audio	Default: w/o Audio Option 1: Mic-in, Line-out, Line-in Option 2: Mic-in, L/R speaker-out (6W + 6W) Option 3: Line-in, L/R speaker-out (6W + 6W)					
TPM 2.0	Default: w/o TPM					
eSIM	Optional					
<b>Storage</b>						
SATA	2x 2.5" SATA 6Gb/s external drive bays 1x SATA 6Gb/s signal via M.2 B key connector					
<b>Mechanical</b>						
Dimensions	235 x 182 x 75mm (W x D x H, without foot pads)					
Mounting	Optional wall-mount bracket					
<b>Power Supply</b>						
DC Input	DC 12V input (Molex DC-in jack)					
AC Input	Optional: 240W (12V/20A) AC/DC adapter					
<b>Environmental</b>						
Operating Temperature	0°C to 50°C (W/MXM, W/SSD)					
Storage Temperature	-20°C to 70°C					
Humidity	5% to 95%, non-condensing					
Vibration	Operating vibration: 2Grms, 5-500Hz, 3 axes, Package(NON-OP) vibration: 3.44Grms, 10-1000Hz, 3 axes (W/MXM, W/SSD)					
Operating and Package (NON-OP) shock	30G, 11ms duration, half sine (W/MXM, W/SSD)					
EMC	EN55032/35, EN61000-6-2/-4, CE, FCC Part 15B Class B					
Safety	UL/cUL and CB					

\*Note: These models do not include an MXM graphics module.

# DLAP-3100-CF Series

*Embedded System supporting MXM Graphics Module with 8<sup>th</sup>/9<sup>th</sup> Generation Intel® Core™ i7/i5/i3 in LGA1151 Socket*

## Features

- ADLINK MXM Graphics module support (Type A/B, up to 120W)
- 8<sup>th</sup>/9<sup>th</sup> Gen Intel® Core™ i7/i5/i3, Celeron® processor
- Dual SODIMMs for up to 64GB DDR4 non-ECC memory (dependent on CPU)
- DisplayPort (2 from CPU, 4 from MXM)
- 1x M.2 E key supporting 1630 or 2230 for Wi-Fi/Bluetooth module, 1x M.2 B key supporting 2242 or 2280 for SATA storage module 1x M.2 M key supporting 2242 or 2280 for SATA/PCIe x4 storage module
- Reliable Molex type 12V DC-in connector
- 1x Intel® i219-LM) and 5x Intel® i210-AT



## Software Support

- Win10 IoT Enterprise SAC 64bit
- Ubuntu 18.04.1 LTS 64bit

## Optional Accessories

- CPU cooler: 32-20495-0000
- CPU cooler bracket 32-50015-0100-A0
- MXM cooler for P1000/P2000: 32-20797-0200-A0
- MXM cooler for P3000/P5000: 32-20823-0020-A0
- MXM cooler for T1000: 32-20830-0200-A0
- MXM cooler for RTX3000: 32-20823-1100-A0
- 12V/240W adaptor: 31-62164-0010-A0
- Wall Mount Bracket 34-34546-0000-A0 2pcs
- Wifi Kit INTEL AC9260 Non-VPRO 91-95266-0010

## Ordering Information

Model	MXM Support	Chipset	DC-in
DLAP-3100-CFP1	EGX-MXM-P1000	Q370	12V
DLAP-3100-CFP2	EGX-MXM-P2000	Q370	12V
DLAP-3100-CFP12	EGX-MXM-P1000/2000/ T1000/RTX3000 (not incl.)	Q370	12V
DLAP-3100-CFP3	EGX-MXM-P3000	Q370	12V
DLAP-3100-CFP5	EGX-MXM-P5000	Q370	12V
DLAP-3100-CFP35	EGX-MXM-P3000/5000 (not incl.)	Q370	12V
DLAP-3100-CFT1	EGX-MXM-T1000	Q370	12V
DLAP-3100-CFT3	EGX-MXM-RTX3000	Q370	12V

# DLAP-3100-CF

## Specifications

Model	DLAP-3100-CFP1	DLAP-3100-CFP2	DLAP-3100-CFT1	DLAP-3100-CFT3	DLAP-3100-CFP3	DLAP-3100-CFP5
	DLAP-3100-CFP12*			DLAP-3100-CFP35*		
MXM Support	EGX-MXM-P1000	EGX-MXM-P2000	EGX-MXM-T1000	EGX-MXM-RTX3000	EGX-MXM-P3000	EGX-MXM-P5000
Processor	Intel® Core™ i7-9700E, 2.6GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (8C/8T) Intel® Core™ i7-9700TE, 1.8GHz, 12M Cache, 35W 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™ i5-9500TE, 2.2GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-9100E, 3.1GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Core™ i3-9100TE, 2.2GHz, 6M Cache, 35W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Core™ i7-8700, 3.2GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/12T) Intel® Core™ i7-8700T, 2.4GHz, 12M Cache, 35W 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™ i5-8500T, 2.1GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-8100, 3.6GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Celeron® G4900, 3.1GHz, 2M Cache, 54W TDP, LGA1151, DDR4 2400MHz support (2C/2T) Intel® Celeron® G4900T, 2.9GHz, 2M Cache, 35W TDP, LGA1151, DDR4 2400MHz support (2C/2T)					
Chipset	Intel® Q370 Chipset					
Memory	Non-ECC DDR4 2666/2400MHz, 2x SO-DIMM, up to 64GB (dependent on CPU)					
<b>I/O Interfaces</b>						
Display	6x DisplayPort (2 from CPU, 4 from MXM)					
Ethernet	1x GbE (Intel® i219-LM), 5x GbE (Intel® i210-AT)					
Serial Ports	1x RS-232/422/485, 1x RS-232					
USB	6x USB 3.2 Gen1x1 ports, 2x USB 2.0 ports					
M.2	1x M.2 E key supporting 1630 or 2230 for Wi-Fi/Bluetooth module, 1x M.2 B key supporting 2242 or 2280 for SATA storage module 1x M.2 M key supporting 2242 or 2280 for SATA/PCIe x4 storage module					
Digital IO	1x DI/DO with 4 in, 4 out					
Audio	Mic-in, L/R speaker-out (6W + 6W)					
TPM 2.0	Yes					
eSIM	Optional					
<b>Storage</b>						
SATA	2x SATA 6Gb/s, one SATA power connector 2x SATA 6Gb/s signals via M.2 M & B key connector Intel® RST RAID Support					
<b>Mechanical</b>						
Dimensions	235 x 182 x 75mm (W x D x H, without foot pads)					
Mounting	Optional wall-mount bracket					
<b>Power Supply</b>						
DC Input	DC 12V input (Molex DC-in jack)					
AC Input	Optional: 240W (12V/20A) AC/DC adapter					
<b>Environmental</b>						
Operating Temperature	0°C to 50°C (W/MXM, W/SSD)					
Storage Temperature	-20°C to 70°C					
Humidity	5% to 95%, non-condensing					
Vibration	Operating vibration: 2Grms, 5-500Hz, 3 axes, Package(NON-OP) vibration: 3.44Grms, 10-1000Hz, 3 axes (W/MXM, W/SSD)					
Operating and Package (NON-OP) shock	30G, 11ms duration, half sine (W/MXM, W/SSD)					
EMC	EN55032/35, EN61000-6-2/-4, CE, FCC Part 15B Class B					
Safety	UL/cUL and CB					

\*Note: These models do not include an MXM graphics module.