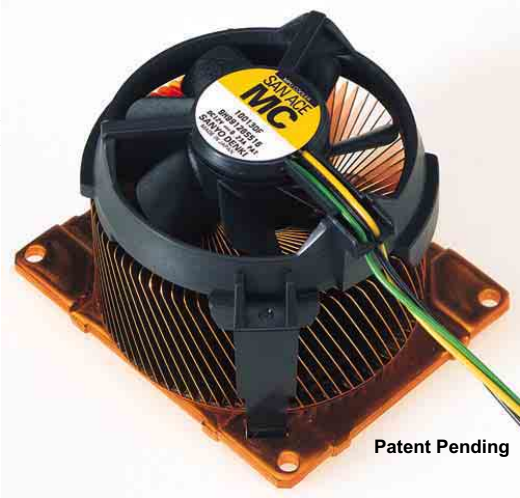


NEW

San Ace MC-HX Series

Spiral Copper Active Heatsink for Intel®Pentium® 4 PGA423 & μPGA478 2.2GHz

- Brushless DC Motor with Plastics Frame/Impeller and Copper Heatsink
- Permanently Lubricated Dual Ball Bearing System
- Current Limiting System with Reverse Polarity Protection
- Color-coded 220mm AWG 26 Lead
 - +: Yellow (CN; Pin 2) -: Black (CN; Pin 1) Sensor: Green (CN; Pin 3)
- Expected Service Life of 40,000 hours
(90% survival rate at 60 °C, nominal voltage, continuous operation with unobstructed inlets and outlets)
- Operating Temperature: 0 °C to +70 °C (No Condensation)
- Storage Temperature: -30 °C to +75 °C (No Condensation)
- Rotational Direction: CW looking at label
- Dielectric Strength: 50/60 Hz, 500 VAC, one (1) minute
(between lead conductor and frame)
- Connector: Molex 22-01-3037 (P/N 2695-03RP)
Contact: Molex P/N 5159PBT or 2759T
- Mass: 410g



Intel® Pentium®4 μPGA478 Compatible

Click on Model No in red to view dimensional drawings

- Up to 2.2 GHz

Size	Thermal Resistance	Nominal Voltage	Voltage Range	Sound Pressure	Current	Nominal Speed	Model No.	Clip
mm	K/W	V	V	db(A)	A	min ⁻¹		
83.3x68.5x54.5	0.37	12	9.0 - 13.8	39	0.23	5200	9H9912G5516	109-1007

Intel® Pentium®4 PGA423 Compatible

Click on Model No in red to view dimensional drawings

- Up to 2.2 GHz

Size	Thermal Resistance	Nominal Voltage	Voltage Range	Sound Pressure	Current	Nominal Speed	Model No.	Clip
mm	K/W	V	V	db(A)	A	min ⁻¹		
88.9x63.5x54.5	0.37	12	9.0 - 13.8	39	0.23	5200	9H9912G5016	-

Notes: (1) Listed models are pulse sensor types
(2) Noise ratings are average values as measured from a point one (1) meter from intake of fan suspended in an anechoic chamber.
(3) Intel® Pentium® 4 is a registered trademark of Intel Corporation.

NEW

Dyna Ace Series

19" Rack Mountable Ø172 x 147 x 25mm DC Axial Fans

- Brushless DC Motor with Aluminium Fan Housing and Plastics Impeller
- Permanently Lubricated Dual Ball Bearing System
- Current Limiting System with Reverse Polarity Protection
- Color-coded 300mm AWG 24 Leads (stripped and thinned ends) (+ Red/ - Black)
- Pulse/Lock/Inverse Lock/Low Speed/Inverse Low Speed Sensor Options
- Expected Service Life of 40,000 hours (90% survival rate at 60 °C, nominal voltage, continuous operation with unobstructed inlets and outlets)
- Operating Temperature: -10 °C to +60 °C (No Condensation)
- Storage Temperature: -30 °C to +70 °C (No Condensation)
- Rotational Direction: CCW looking at label
- Dielectric Strength: 50/60 Hz, 500 VAC, one (1) minute (between lead conductor and frame)
- Mass: 500 g



Ø172 x 147 x 25mm

Click on Model No in red to view air performance curves

Airflow		Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m³/min	CFM	Pa	inch/H₂O	V	V	dB(A)	W	min⁻¹	
5.20	183	86	0.35	12	10.8 - 13.8	51	18.0	2700	109E4712M402
4.60	162	68	0.27	12	10.8 - 13.8	48	13.2	2400	109E4712L402
6.40	226	130	0.52	24	20.4 - 27.6	57	28.8	3300	109E4724H402
5.80	204	106	0.43	24	20.4 - 27.6	54	20.9	3000	109E4724F402
5.20	183	86	0.35	24	20.4 - 27.6	51	15.6	2700	109E4724M402
4.60	162	68	0.27	24	20.4 - 27.6	48	11.0	2400	109E4724L402
6.80	240	146	0.59	48	40.8 - 55.2	58	31.2	3500	109E4748S402
6.40	226	130	0.52	48	40.8 - 55.2	57	29.8	3300	109E4748H402
5.80	204	106	0.43	48	40.8 - 55.2	54	20.6	3000	109E4748F402
5.20	183	86	0.35	48	40.8 - 55.2	51	16.3	2700	109E4748M402
4.60	162	68	0.27	48	40.8 - 55.2	48	13.0	2400	109E4748L402

Click to view dimensional drawings

- Models without sensor
- Models with sensor

Notes: (1) Listed models are non-sensor types
(2) Airflow, power input, speed and noise ratings are at nominal voltage against zero static pressure.
(3) Static pressure ratings are at nominal voltage against zero air flow.
(4) Noise ratings are average values as measured from a point one (1) meter from intake of fan suspended in an anechoic chamber.
(5) Air performance curves show fan outputs with unobstructed inlets and outlets.

San Ace 120L G Type

High Airflow 119 x 38mm Long Life Fan Motors

- Brushless DC Motor with Aluminium Fan Housing and Plastic Impeller
- Permanently Lubricated Dual Ball Bearing System
- Current Limiting System with Reverse Polarity Protection
- Color-coded 300mm AWG 24 Leads (stripped and thinned ends)
- Pulse/Lock/Inverse Lock/Low Speed/Inverse Low Speed Sensor Options
- Expected Service Life of 100,000 hours
(90% survival rate at 60 °C, nominal voltage, continuous operation with unobstructed inlets and outlets)
- Operating Temperature: -10 °C to +60 °C (No Condensation)
- Storage Temperature: -30 °C to +70 °C (No Condensation)
- Rotational Direction: CW looking at label
- Dielectric Strength: 50/60 Hz, 500 VAC, one (1) minute
(between lead conductor and frame)
- Mass: 370g



119 x 119 x 38mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m³/min	CFM	Pa	inch/H₂O	V	V	dB(A)	W	min⁻¹	
3.90	138	138.0	0.554	12	10.2 - 13.8	49	11.80	3600	9GL1212G102
3.40	120	102.0	0.410	12	10.2 - 13.8	46	7.30	3100	9GL1212E102
2.80	99	70.4	0.283	12	7.0 - 13.8	39	4.56	2600	9GL1212H102
2.45	87	54.2	0.218	12	7.0 - 13.8	36	3.36	2280	9GL1212F102
2.10	74	39.6	0.160	12	7.0 - 13.8	32	2.52	1950	9GL1212M102
3.90	138	138.0	0.554	24	20.4 - 27.6	49	12.00	3600	9GL1224G102
3.40	120	102.0	0.410	24	20.4 - 27.6	46	8.20	3100	9GL1224E102
2.80	99	70.4	0.283	24	14.0 - 27.6	39	4.80	2600	9GL1224H102
2.45	87	54.2	0.218	24	14.0 - 27.6	36	3.84	2280	9GL1224F102
2.10	74	39.6	0.160	24	14.0 - 27.6	32	2.64	1950	9GL1224M102
3.90	138	138.0	0.554	48	40.8 - 55.2	49	12.00	3600	9GL1248G102
3.40	120	102.0	0.410	48	40.8 - 55.2	46	8.20	3100	9GL1248E102
2.80	99	70.4	0.283	48	40.8 - 55.2	39	5.28	2600	9GL1248H102
2.45	87	54.2	0.218	48	40.8 - 55.2	36	4.32	2280	9GL1248F102
2.10	74	39.6	0.160	48	40.8 - 55.2	32	3.36	1950	9GL1248M102

Click to view dimensional drawings

- **Models without sensor**
- **Models with sensor**

Notes: (1) Listed models are non-sensor types.
(2) Airflow, power input, speed and noise ratings are at nominal voltage against zero static pressure.
(3) Static pressure ratings are at nominal voltage against zero air flow.
(4) Noise ratings are average values as measured from a point one (1) meter from intake of fan suspended in an anechoic chamber.
(5) Air performance curves show fan outputs with unobstructed inlets and outlets.
(6) Ask our sales team for details of models with higher airflow performance than those shown above.

San Ace MC

1U Compatible Active Heatsink for Intel® Pentium® III FC-PGA2 1.4 GHz/
Intel®Celeron™ FC-PGA2 1. 3 GHz

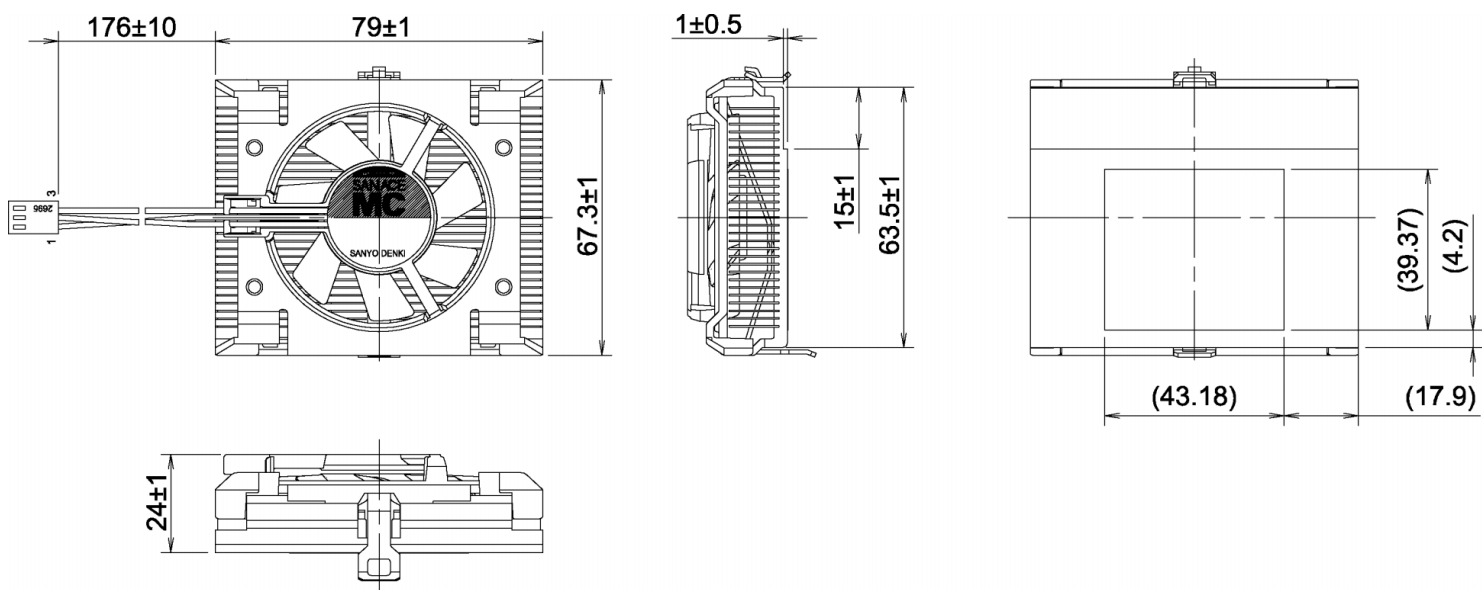
- Brushless DC Motor with Plastic Frame/Impeller and Aluminium Base Copper Fin Heatsink
- Permanently Lubricated Dual Ball Bearing System
- Current Limiting System with Reverse Polarity Protection
- Color-coded 176mm AWG 26 Leads with Molex Connector and Contact
Connector: Molex 22-01-3037 (2695-03RP)
Contact: Molex 5159PBT or 2759T
- Expected Service Life of 40,000 hours
(90% survival rate at 60 °C, nominal voltage, continuous operation with unobstructed inlets and outlets)
- Operating Temperature: -10 °C to +70 °C (No Condensation)
- Storage Temperature: -30 °C to +75 °C (No Condensation)
- Rotational Direction: CW looking at label
- Dielectric Strength: 50/60 Hz, 500 VAC, one (1) minute
(between lead conductor and frame)
- Thermal Contact: Power Devices Inc. (Type AS-J-17H-155)



Size	Thermal Resistance	Nominal Voltage	Voltage Range	Sound Pressure	Current	Nominal Speed	Model No.	Clip
mm	K/W	V	V	db(A)	A	min ⁻¹		
79.0x67.3x24.0	0.63	12	7.0 - 13.8	42	0.22	6000	109X7412S4016	Preattached

Notes: (1) Listed model is pulse sensor type.
(2) Noise ratings are average values as measured from a point one (1) meter from intake of fan suspended in an anechoic chamber.
(3) Intel® Pentium® III is a registered trademark of Intel Corporation.

Dimensions



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San Ace 120 G-Type

High Air Flow Low Power Consumption 119x25mm & 119x38mm DC Axial Fans

- Brushless DC Motor with Plastic Fan Housing and Impeller
- Permanently Lubricated Dual Ball Bearing System
- Current Limiting System with Reverse Polarity Protection
- Color-coded 300mm UL1007 AWG 24 Leads (stripped and thinned ends)
- Pulse/Lock/Inverse Lock/Low Speed/Inverse Low Speed Sensor Options
- Expected Service Life of 40,000 hours
(90% survival rate at 60 °C, nominal voltage, continuous operation with unobstructed inlets and outlets)
- Operating Temperature: -10 °C to +60 °C (No Condensation)
- Storage Temperature: -30 °C to +70 °C (No Condensation)
- Rotational Direction: CW looking at label
- Dielectric Strength: 50/60 Hz, 500 VAC, one (1) minute
(between lead conductor and frame)
- Mass: 240 - 330g



119 x 119 x 25mm

Click on Model No in red to view air performance curves

Airflow	Airflow	Static Pressure	Static Pressure	Nominal Voltage	Voltage Range	Sound Pressure	Power Input	Nominal Speed	Model No.
m³/min	CFM	Pa	inch/H₂O	V	V	dB(A)	W	min⁻¹	
3.68	130	120	0.48	12	10.8 - 13.8	51	10.8	4100	9G1212G402
3.25	115	98	0.39	12	10.8 - 13.8	48	6.96	3650	9G1212E402
2.83	100	77	0.31	12	10.8 - 13.8	44	4.80	3150	9G1212A402
2.50	88	64	0.26	12	10.8 - 13.8	40	3.72	2850	9G1212H402
1.98	70	42	0.17	12	10.8 - 13.8	35	2.28	2250	9G1212F402
1.66	58	31	0.12	12	10.8 - 13.8	29	1.68	1950	9G1212M402
3.68	130	120	0.48	24	20.4 - 27.6	51	11.28	4100	9G1224G402
3.25	115	98	0.39	24	20.4 - 27.6	48	8.88	3650	9G1224E402
2.83	100	77	0.31	24	20.4 - 27.6	44	5.04	3150	9G1224A402
2.50	88	64	0.26	24	20.4 - 27.6	40	4.08	2850	9G1224H402
1.98	70	42	0.17	24	20.4 - 27.6	35	2.40	2250	9G1224F402
1.66	58	31	0.12	24	20.4 - 27.6	29	1.92	1950	9G1224M402
3.68	130	120	0.48	48	40.8 - 55.2	51	11.04	4100	9G1248G402
3.25	115	98	0.39	48	40.8 - 55.2	48	7.68	3650	9G1248E402
2.83	100	77	0.31	48	40.8 - 55.2	44	6.24	3150	9G1248A402
2.50	88	64	0.26	48	40.8 - 55.2	40	4.80	2850	9G1248H402
1.98	70	42	0.17	48	40.8 - 55.2	35	2.88	2250	9G1248F402
1.66	58	31	0.12	48	40.8 - 55.2	29	2.40	1950	9G1248M402