

# Product Sheet

# Lumen

English Version



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# Lumen

## Color coordinated cooling

Customize your water-cooling from subtle to stunning with Lumen's six addressable LEDs that you can command via motherboard or controller. Compatible with most common Intel/AMD sockets and RGB certified by industry standards, the Lumen is an attractive proposition for starting and seasoned builders alike.



# Key features

- Duality design provides both a stealthy and illuminated look, controlled from your motherboard RGB UI
- Six ARGB LEDs are yours to command via your motherboard or controller
- The removable top can be turned at 90-degree intervals, making the logotype horizontal independent of the mounting orientation
- Pre-applied thermal paste ensures an easy installation
- Supports the most common sockets for both Intel and AMD
- Aspect fans for low turbulence and chaining support
- Articulating elbow fittings make tubes easier to route and reduces tension on the cold plate housing
- Current certifications include Asus AURA, Gigabyte Fusion, MSI Mystic Light, Razer Chroma and ASRock Polychrome support
- Low-permeability rubber tubes with braided nylon sleeves



# General specifications

FAN Specification	Lumen S24 RGB	Lumen S28 RGB	Lumen S36 RGB
Fan type	• Aspect 12 RGB PWM	• Aspect 14 RGB PWM	• Aspect 12 RGB PWM
Fan rotational speed	• 500–2000 RPM	• 500–1700 RPM	• 500–2000 RPM
Fan bearing	• Rifle bearings	• Rifle bearings	• Rifle bearings
Fan PWM control	• Yes	• Yes	• Yes
Fan acoustical noise	• <10–33.2 dBA	• <10–35.5 dBA	• <10–33.2 dBA
Fan maximum air flow	• 13–56 CFM	• 20–78 CFM	• 13–56 CFM
Fan maximum static pressure	• 0.230–2.34 mm H2O	• 0.3–2.05 mm H2O	• 0.230–2.34 mm H2O
Fan input voltage	• 12V	• 12V	• 12V
Fan maximum input current	• 0.37 A	• 0.24 A	• 0.37 A
Fan MTTF	• 90 000 hours	• 90 000 hours	• 90 000 hours
Fan 4-pin Cable length	• 500 mm	• 500 mm	• 500 mm
Fan aRGB 5V, 3-Pin Cable length	• 500 mm	• 500 mm	• 500 mm

Specification	Lumen S24 RGB	Lumen S28 RGB	Lumen S36 RGB
Cold plate material	• Copper	• Copper	• Copper
Thermal paste	• Pre-applied	• Pre-applied	• Pre-applied
Block Height	• 43 mm	• 43 mm	• 43 mm
Block measurements (with fittings)	• 79 x 67 mm	• 79 x 67 mm	• 79 x 67 mm
Block diameter (main block body)	• 67 mm	• 67 mm	• 67 mm
Sockets supported (Intel)	• LGA 1150/1151/1155/1156/1200 LGA 1366/2011/2011-3/2066	• LGA 1150/1151/1155/1156/1200 LGA 1366/2011/2011-3/2066	• LGA 1150/1151/1155/1156/1200 LGA 1366/2011/2011-3/2066
Sockets supported (AMD)	• AM4/FM2+/FM2/ FM1/AM3+/AM3/AM2+/AM2	• AM4/FM2+/FM2/ FM1/AM3+/AM3/AM2+/AM2	• AM4/FM2+/FM2/ FM1/AM3+/AM3/AM2+/AM2

# General specifications

Specification	Lumen S24 RGB	Lumen S28 RGB	Lumen S36 RGB
Tube material	• Low-permeability rubber with braided nylon sleeve	• Low-permeability rubber with braided nylon sleeve	• Low-permeability rubber with braided nylon sleeve
Fittings, block side	• Articulating 90-degree Elbow	• Articulating 90-degree Elbow	• Articulating 90-degree Elbow
Fittings, radiator side	• Barbed fitting	• Barbed fitting	• Barbed fitting
Warranty	• 5 years	• 5 years	• 5 years
Pump rotational speed	• 4000 ± 10% RPM	• 4000 ± 10% RPM	• 4000 ± 10% RPM
Pump bearing type	• Ceramic	• Ceramic	• Ceramic
Pump PWM control	• No	• No	• No
Pump acoustical noise (full speed)	• 22 dBA	• 22 dBA	• 22 dBA
Pump maximum pressure	• 1.8 mm H <sub>2</sub> O / 17.6 kPa / 2.5 PSI	• 1.8 mm H <sub>2</sub> O / 17.6 kPa / 2.5 PSI	• 1.8 mm H <sub>2</sub> O / 17.6 kPa / 2.5 PSI
Pump input voltage	• 12V DC	• 12V DC	• 12V
Pump input current (without fans)	• 0.34 A	• 0.34 A	• 0.34 A
Pump MTTF	• 50 000 hours	• 50 000 hours	• 50 000 hours
Radiator dimensions	• 272 x 120 x 27 mm	• 313 x 140 x 27 mm	• 392 x 120 x 27 mm
Radiator housing material	• Aluminum	• Aluminum	• Aluminum
Radiator fin material	• Aluminum	• Aluminum	• Aluminum
Radiator fan screw threads	• 6–32	• 6–32	• 6–32
Tube Length	• 400 mm	• 400 mm	• 400 mm
Pump power cable length	• 775 mm	• 775 mm	• 775 mm
aRGB 5V, 3-Pin cable	• 500 mm	• 500 mm	• 500 mm

# General specifications

Fan specification	Lumen S24	Lumen S28	Lumen S36fan
Fan type	• Aspect 12 PWM	• Aspect 14 PWM	• Aspect 12 PWM
Fan rotational speed	• 500–2000 RPM	• 500–1700 RPM	• 500–2000 RPM
Fan bearing	• Rifle bearings	• Rifle bearings	• Rifle bearings
Fan PWM control	• Yes	• Yes	• Yes
Fan acoustical noise	• <10–33.2 dBA	• <10–35.5 dBA	• <10–33.2 dBA
Fan maximum air flow	• 13–56 CFM	• 20–78 CFM	• 13–56 CFM
Fan maximum static pressure	• 0.23–2.34 mm H2O	• 0.3–2.05 mm H2O	• 0.23–2.34 mm H2O
Fan input voltage	• 12V	• 12V	• 12V
Fan maximum input current	• 0.37 A	• 0.24 A	• 0.37 A
Fan MTTF	• 90 000 hours	• 90 000 hours	• 90 000 hours
Fan 4-pin Cable length	• 500 mm	• 500 mm	• 500 mm
Fan aRGB 5V, 3-Pin Cable length	• 500 mm	• 500 mm	• 500 mm

Specification	Lumen S24	Lumen S28	Lumen S36
Cold plate material	• Copper	• Copper	• Copper
Additional sound damping	No	• No	• No
Thermal paste	• Pre-applied	• Pre-applied	• Pre-applied
Block Height	• 43 mm	• 43 mm	• 43 mm
Block measurements (with fittings)	• 79 x 67 mm	• 79 x 67 mm	• 79 x 67 mm
Block diameter (main block body)	• 67 mm	• 67 mm	• 67 mm
Sockets supported (Intel)	• LGA 1150/1151/1155/1156/1200 LGA 1366/2011/2011-3/2066	• LGA 1150/1151/1155/1156/1200 LGA 1366/2011/2011-3/2066	• LGA 1150/1151/1155/1156/1200 LGA 1366/2011/2011-3/2066
Sockets supported (AMD)	• AM4/FM2+/FM2/ FM1/AM3+/AM3/AM2+/AM2	• AM4/FM2+/FM2/ FM1/AM3+/AM3/AM2+/AM2	• AM4/FM2+/FM2/ FM1/AM3+/AM3/AM2+/AM2

# General specifications

	Lumen S24	Lumen S28	Lumen S36
Tube length	• 400 mm	• 400 mm	• 400 mm
Tube material	• Low-permeability rubber with braided nylon sleeve	• Low-permeability rubber with braided nylon sleeve	• Low-permeability rubber with braided nylon sleeve
Fittings, block side			
Fittings, radiator side	• Articulating 90-degree Elbow	• Articulating 90-degree Elbow	• Articulating 90-degree Elbow
Warranty	• Barbed fitting	• Barbed fitting	• Barbed fitting
Pump bearing type	• 5 years	• 5 years	• 5 years
Pump PWM control	• Ceramic	• Ceramic	• Ceramic
Pump acoustical noise (full speed) [dB(A)]	• No	• No	• No
Pump maximum pressure	• 22 dBA	• 22 dBA	• 22 dBA
Pump input voltage	• 1.8 m H <sub>2</sub> O / 17.6 kPa / 2.5 PSI	• 1.8 m H <sub>2</sub> O / 17.6 kPa / 2.5 PSI	• 1.8 m H <sub>2</sub> O / 17.6 kPa / 2.5 PSI
Pump input current (without fans)	• 12 V DC	• 12 V DC	• 12 V DC
Pump MTTF	• 0.34 A	• 0.34 A	• 0.34 A
Radiator dimensions	• 50 000 hours	• 50 000 hours	• 50 000 hours
Radiator housing material	• 272 x 120 x 27 mm	• 312 x 140 x 27 mm	• 392 x 120 x 27 mm
Radiator fin material	• Aluminum	• Aluminum	• Aluminum
Radiator fan screw threads	• Aluminum	• Aluminum	• Aluminum
Tube Length	• 6–32	• 6–32	• 6–32
Pump power cable length	• 400 mm	• 400 mm	• 400 mm
aRGB 5V, 3-Pin cable length	• 775 mm	• 775 mm	• 775 mm
	• 500 mm	• 500 mm	• 500 mm



# Package contents

## Lumen S24 RGB

- CPU Cooler Assembly
- 2x Aspect 12 RGB fans
- User Manual x1
- Thumb screw x4
- 6-32 Mounting Screw (short/long) x8
- Bracket for Intel x1
- Washer x4
- Spacer x4
- Intel 115X Backplate x1
- Intel 115X Mounting Standoff x4
- Intel 2011 Mounting Standoff x4
- AMD Mounting Standoff x2
- Bracket for AMD x1
- 5V ARGB cable x1

## Lumen S28 RGB

- CPU Cooler Assembly
- 2x Aspect 14 RGB fans
- User Manual x1
- Thumb screw x4
- 6-32 Mounting Screw (short/long) x8
- Bracket for Intel x1
- Washer x4
- Spacer x4
- Intel 115X Backplate x1
- Intel 115X Mounting Standoff x4
- Intel 2011 Mounting Standoff x4
- AMD Mounting Standoff x2
- Bracket for AMD x1
- 5V ARGB cable x1

## Lumen S36 RGB

- CPU Cooler Assembly
- 3x Aspect 12 RGB fans
- User Manual x1
- Thumb screw x4
- 6-32 Mounting Screw (short/long) x12
- Bracket for Intel x1
- Washer x4
- Spacer x4
- Intel 115X Backplate x1
- Intel 115X Mounting Standoff x4
- Intel 2011 Mounting Standoff x4
- AMD Mounting Standoff x2
- Bracket for AMD x1
- 5V ARGB cable x1

# Package contents

## Lumen S24

- CPU Cooler Assembly
- 2x Aspect 12 BLCK fans
- User Manual x1
- Thumb screw x4
- 6-32 Mounting Screw (short/long) x8
- Bracket for Intel x1
- Washer x4
- Spacer x4
- Intel 115X Backplate x1
- Intel 115X Mounting Standoff x4
- Intel 2011 Mounting Standoff x4
- AMD Mounting Standoff x2
- Bracket for AMD x1
- 5V ARGB cable x1

## Lumen S28

- CPU Cooler Assembly
- 2x Aspect 14 BLCK fans
- User Manual x1
- Thumb screw x4
- 6-32 Mounting Screw (short/long) x8
- Bracket for Intel x1
- Washer x4
- Spacer x4
- Intel 115X Backplate x1
- Intel 115X Mounting Standoff x4
- Intel 2011 Mounting Standoff x4
- AMD Mounting Standoff x2
- Bracket for AMD x1
- 5V ARGB cable x1

## Lumen S36

- CPU Cooler Assembly
- 3x Aspect 12 BLCK fans
- User Manual x1
- Thumb screw x4
- 6-32 Mounting Screw (short/long) x12
- Bracket for Intel x1
- Washer x4
- Spacer x4
- Intel 115X Backplate x1
- Intel 115X Mounting Standoff x4
- Intel 2011 Mounting Standoff x4
- AMD Mounting Standoff x2
- Bracket for AMD x1
- 5V ARGB cable x1

# Additional information

Product	SKU	EAN	UPC	JAN
Lumen S24 RGB	FD-W-L1-S2402	7340172703389	843276103385	4537694287333
Lumen S28 RGB	FD-W-L1-S2802	7340172703396	843276103392	4537694287340
Lumen S36 RGB	FD-W-L1-S3602	7340172703402	843276103408	4537694287357
Lumen S24	FD-W-L1-S2401	7340172703419	843276103415	4537694287302
Lumen S28	FD-W-L1-S2801	7340172703426	843276103422	4537694287319
Lumen S36	FD-W-L1-S3601	7340172703433	843276103439	4537694287326