

Specifications Comparison

MICROQ AND MICROQ BLACK - BUILT-IN FEATURES

FEATURE	MICROQ	MICROQ <i>independent</i>	MICROQ BLACK	MICROQ BLACK <i>independent</i> (BNC Connector)
Open Data Formats	x	x	x	x
24-bit	x	x	x	x
102.4 kSa/s 204.8 kSa/s Up to 5 MSa/s	x	x	x	x
2 slots for Modular Signal Conditioning	x	x		
ATTOQ connection (S-Port)	x	x	x	x
PoE (Power over Ethernet)	x	x	x	x
PTP (Precision Time Protocol)	x	x	x	x
DC Power (Power LEMO®)	x	x	x	x
Machined from Aluminium, Conduction Cooled	x	x	x	x
Wi-Fi		x		x
Built-in GPS		x		x
128 GB SSD		x		x
Removable SD card				
Internal Battery		x		x
External Battery compatible		x		
DOCKQ maintenance station compatible		x		
BUILT-IN CHANNELS				
Tacho	x	x		
CAN FD	2 Channels	2 Channels	1 Channel	1 Channel
HDI (High Definition Interface)		x		
2 ICP® channels (BNC connectors)			x	x

MECHANICAL SPECIFICATIONS

	MICROQ	MICROQ BLACK	MICROQ BLACK i
Maximum Dimensions (W x L x H)	172 x 251 x 53 mm (6.77 x 9.88 x 2")	142 x 32 x 180 mm (5.59 x 1.25 x 7")	172 x 36 x 241mm (6.77 x 1.41 x 9.48")
Weight without built-in Internal MICROQ Battery	1.85 kg (4.08 lbs)	1.5 kg (3.31 lbs)	N/A
Weight with built-in Internal MICROQ Battery	2.25 kg (4.96 lbs)	N/A	2 kg (4.41 lbs)
Weight with Attached External MICROQ Battery	2.70 kg (5.95 lbs)	N/A	N/A
Shock ¹	40 g of shock with 11 ms duration	40 g of shock with 11 ms duration	40 g of shock with 11 ms duration
Vibration ²	0.1 g ² /Hz from 10 to 2000 Hz	0.1 g ² /Hz from 10 to 2000 Hz	0.1 g ² /Hz from 10 to 2000 Hz
Earthing Connector Type	4 mm (0.16") Jack	4 mm (0.16") Jack	4 mm (0.16") Jack
Ambient Operating Temperatures	-20 °C (-4 °F) to 55 °C (131 °F)	-40 °C (-40 °F) to 55 °C (131 °F)	-20 °C (-4 °F) to 50 °C (122 °F)
Operating Humidity	5 % - 90 % RH	5 % - 90 % RH	5 % - 90 % RH
Ingress Protection Rating	IP40	IP40	IP40
Typical Mounting	Table top	Table top	Table top
Maximum Internal Frequency	1.25 GHz	2.5 GHz	2.5 GHz
MICROQ Power Supply Input	Power over Ethernet (PoE) IEEE 802.3at Type 2, LTPoE ⁺⁺ DC Power LEMO [®]	Power over Ethernet (PoE) IEEE 802.3at Type 2, LTPoE ⁺⁺ DC Power LEMO [®]	Power over Ethernet (PoE) IEEE 802.3at Type 2, LTPoE ⁺⁺ DC Power LEMO [®]
Voltage (PoE)	42 – 57 VDC	42 – 57 VDC	42 – 57 VDC
DC Power Voltage Range (LEMO [®] Power Connector)	10 - 30 VDC	10 - 30 VDC	10 - 30 VDC
Max Power Input	40 W	25 W	25 W
Typical Power Consumption	25 - 30 W	10 - 15 W	10 - 15 W
Ethernet Type	1000BASE-T	1000BASE-T	1000BASE-T

¹ According to IEC 60068-2-27 – Ea and guidance: Shock

² According to IEC 60068-2-06 – Fc: Vibration Sinusoidal