

RUGGED CONTROLLER RC08

Appearance¹



¹Appearance is for reference only and is subjected to change with configurations.

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System Specifications	
Platform	– Intel® Elkhart Lake Platform
Operation System	– Windows11 IoT
Processor	– Intel® Atom® x6413E Processor – 1.5M Cache, up to 3GHz
Graphic	– Intel® UHD Graphics
Thermal Solution	– Passive Cooling
Memory	– 16GB DDR4-3200 x 1 Optional: – 32GB DDR4-3200 x 1
Storage	– 256GB M.2 2242 PCIe 3.0 SSD x 1 Optional: – 512GB/1TB M.2 2242 PCIe 3.0 SSD x 1
Audio	– Mono Speaker
Sensor	– Ambient Light Sensor
Security	– Password Security (Administrator Password, User Password) – TPM2.0
Display	
Size	– 8" display
Touch Screen	– Capacitive Multi-Touch Screen – Optical Bonding
Resolution	– 1920 x 1200
Brightness	– 1000 nits
Power	
Input Power	– Fast Charging via Type-C: 60W
Battery	– 1 st System Battery Pack: Li-ion 14.4V/2400mAh Optional: – Radio Battery: Li-ion 7.2V/2400mAh ^{2,14} – 2 nd System Battery Pack: Li-ion 14.4V/2400mAh ³
Mechanical and Environmental Specification	
Dimensions⁴	– 330 x 170 x 53 mm – 330 x 217 x 82 mm (with Handle & Radio Module)
Weight⁴	– Approx. 1.8kg – Approx. 2.3kg (with 2 nd System Battery & Radio Module)
Chassis	– Color: Black – Materials: Engineering Plastics – Surface Treatment: Anti-slip coating and rugged grip
Operating Temperature	– -20°C ⁵ ~ +60°C Optional: – -30°C ⁶ ~ +60°C
Storage Temperature	– -40°C ~ +70°C
LED Indicators	
System	– Power: ON/S3 (Green/Breathing Green) – 1 st / 2 nd System Battery: Charge/Battery Low (Orange/Flashing Orange) – Radio: ON/OFF (Green/OFF) – Radio Battery Indicator (Green; 4-battery level)
I/O Interfaces	
Bottom	– HDMI® Connector ⁷ x 1 – USB 3.1 Gen. 2 Type-C ⁸ x 1 – USB 3.1 Gen. 2 Type-A ⁹ x 1 – LAN RJ45 ¹⁰ x 1 Optional: – Fischer USB2.0 ⁹ x 1 – Fischer LAN ¹⁰ x 1
Rear	– Radio Module Slot

Human Interfaces	
Top	– Slider x 2 – System Power Button x 1 – Radio Module Switch x 1
Front - Left	– 2-axis Joystick x 1 – 2-way Toggle Switch x 2 – 3-way Toggle Switch x 1 – Button ¹¹ x 4
Front - Right	– 2-axis Joystick x 1 – 2-way Toggle Switch x 2 – 3-way Toggle Switch x 1 – Button ¹¹ x 4
Wireless & Communications	
LAN	– 10/100/1000 base-T Ethernet (Intel® WG1210)
WLAN/ Bluetooth¹²	– Wi-Fi 4, 5, 6 (Intel® Wi-Fi 6 AX210) – Bluetooth®5.3 (Intel® Wi-Fi 6 AX210)
GNSS	Optional: – GPS/GLONASS/Galileo/Beidou (Ublox Neo-M9N)
Optional Radio Module ^{2,13,14}	
Model	– Default: Azuretec SWT1528 (Ver. 1.0)
Frequency & Output Power	– Default: 800MHz; 2.4GHz/5GHz (auto-switching) – 27dBm
Input Power	– DC 12V-24V
Max. Data Rate	– 15 Mbps (800MHz) – 50 Mbps (2.4GHz, 5GHz)
Interface	– UART – LAN – SBUS (16 channel) – RC Transmitter Protocol, able to control through radio module independently.
Antenna	– External Omnidirectional Antenna (SMA) – 800MHz x 1 – 2.4GHz x 1 – 5GHz x 1 Optional: – Embedded Directional Antenna with Sunshield
Operating Temperature	– -30°C ~ +60°C
Storage Temperature	– -40°C ~ +70°C
Dimension	– 190 x 132 x 35 mm
Optional Communication Module ¹⁴	
Model	– Default: Fiber Module MC-GA11-FCv2 (Ver. 1.0)
Interface	– LAN RJ45 – HDMI
Video Quality	– Up to 4K
Wavelength	– Max. 20km
Input Power	– 5V/1A – 5V~27V/1A
Accessories	
Shoulder Harness	– Available
Sunshield	– with Embedded Directional Antenna
AC Adapter	– Rugged 60W USB-C AC Adapter – 60W, 100V-240V 50/60Hz – Rugged 240W USB-C AC Adapter – 240W, 100V-240V 50/60Hz (Under development)
Certifications	
Certifications	– CE/ FCC/ UKCA/ RCM – WEEE/ REACH/ POPs/ RoHS – IP65 – MIL-STD-810H ¹⁵ – MIL-STD-461G (Ground Navy) ¹⁶

²Come in set with Radio module.

³Hot-swappable.

⁴Varies from configurations and optional accessories.

⁵Instant Cold Boot via Battery Mode.

⁶Cold Boot via Battery Mode.

⁷as specified in HDMI1.4b.

⁸Support data transfer, DP1.2, and PD (20V/3A)

⁹USB 3.1 Gen. 2 Type-A and Fischer USB2.0 are mutually exclusive.

¹⁰RJ45 and Fischer LAN are mutually exclusive.

¹¹With backlights (White).

¹²Disabled while Radio module is ON.

¹³Comprising a radio battery and radio module switch.

¹⁴Optional Radio Module and Optional Communication Module are mutually exclusive.

¹⁵Design compliant with Low Pressure, High/Low Temperature, Temperature Shock, Rain, Humidity, Vibration, Shock Tests

¹⁶Contact your sales representative for more details.

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