

GCS-6070

Ground Control Station (Preliminary)



GCS Key Features

- **Optimized Performance & Power Efficiency** – Powered by Qualcomm Dragonwing QCS6690 with up to 6 TOPS AI performance, enabling responsive UI, real-time video processing, and energy-efficient operation.
- **Sunlight-Readable 7” Display** – 1920 × 1200 (WUXGA) resolution with up to 1500 nits brightness for clear visibility in outdoor environments.
- **Comprehensive Connectivity** – Integrated Wi-Fi 7 and Bluetooth 5.4, with support for SRM radio modules; optional 4G/5G and GNSS for wide-area communication and positioning.
- **Ruggedized for Field Use** – Designed to meet MIL-STD-810H environmental standards and IP65 ingress protection for reliable operation in harsh conditions.
- **Hot-Swappable Dual Batteries** – Dual battery architecture with hot-swap capability to ensure continuous operation during extended missions without system downtime.

■ Specification

System	CPU	Qualcomm® Dragonwing™ QCS6690, 8-core Kryo™ @ Up to 2.9 GHz
	AI	6 INT8 TOPS
	RAM & Storage	8GB LPDDR5x, 128GB UFS
	Storage Expansion	Micro SD/SDXC card slot, support up to 2TB
Display	OS	Android 16
	Size	7-inch
	Resolution	1920 × 1200
Touch Screen	Brightness	1500 nits, Sunlight readable, elimination of sunglasses polarization, UV resistance
		Capacitive multi-touch: support finger, glove, rain and stylus mode operation
Control	Button	Power button × 1, Joystick × 2, Home button × 1, Stop button × 1, Roller switch × 2, Trigger button × 2, 5-way switch × 1, Programmable button × 8
Indicators	LED	Power LED × 1, Battery LED × 4
Connections	USB	USB-C × 2 (1 for Power charging & data transfer(w/ DP) ; 1 for data transfer only)
	Ethernet	RJ45 × 1
	Audio Jack	3.5 mm × 1
	Expansion port	Support Radio module and 4G/5G module expansion
Wireless Connectivity	Wi-Fi	Wi-Fi 7, Wi-Fi 6E, Wi-Fi 6 (802.11ax), 802.11ac wave 2, 802.11a/b/g, 802.11n Support 2.4GHz, 5GHz, 6GHz multi-bands and MIMO
	Bluetooth	Bluetooth 5.4
	Cellular	5G NR, 5G RedCap, 4G/LTE module +Nano SIM slot x1(Optional)
	Radio	Support Microhard, Persistent Systems, Doodle Labs, Domo Tactical and Silvus Radio modules (Optional)
Radio Protocol		MAVLink, SRT/RTSP
GNSS		3 Constellation GNSS (GPS, Galileo, Glonass), stand alone module
Power	Charging	Through USB Type-C Connector, support 65W PD power adapter
Software		QGroundControl
Mechanical	Dimensions (W x D x H)	268.0 x 149.0 x 31.0/53.8 mm
	Weight	1.1 KG (without optional module)
	Mounting	Shoulder harness 4-Point (Optional)
	Antenna Connector	4 × SMA Antennas (Optional)
Environmental	Operating Temperature	- 20°C to + 55°C
	Storage Temperature	- 40°C ~ 70°C (w/o battery @-40°C)
	Reliability	MIL-STD-810H, 5 ft drop to concrete
IP Rating		IP65
Security/Encryption		AES-128 / AES-256 (Hardware Accelerated)
Compliance		NDAA Compliant; TAA Compliant; FIPS 140-3 (Available upon request)
Certificate		CE, FCC