



## Modular Control Station (MCS)

Sechan's Modular Control Station (MCS) was developed to provide Unmanned System (US) operators with advanced command and control (C2) capabilities in a portable and clean form factor. This system packages a ruggedized embedded computer, peripherals, and high brightness, 1080p high definition (HD) displays into a two-man carry case with external connections for power and data links. With all components packaged in one case, operators can easily setup the MCS, connect power and data, and operate assets with great visibility on the high brightness HD displays.



### Features

- \* Multiple server rack components have been replaced by modular, embedded components for easy remove and replace maintenance.
- \* The modular architecture allows the MCS to be software and datalink agnostic.
- \* The C2 architecture addresses parts obsolescence associated with traditional control systems.

With a single strand, multi-mode fiber optic link available on the MCS, a Remote Data Terminal (RDT) can be located up to 2 kilometers away to support remote operations while minimizing signal loss among transmitters, receivers, and the antenna. The MCS is powered from 115VAC to provide operators flexibility, while military standard BB-2590 batteries provide an uninterrupted power supply for reliability. Thus, the MCS provides operators a robust, integrated, flexible, and reliable solution for command and control of assets, even in remote areas.

## TECHNICAL SPECIFICATIONS:

Form Factor	Pelican 1770 Case
Input Power	115VAC
Backup Power	294Whr Uninterruptable Power Supply using BB-2590 Battery
Aux Power Output	24VDC, 10A from Input Power
Processor	Intel® 6th Generation Core™ i7-6700TE Processor (8M Cache, up to 3.40 GHz, 35W TDP)
Chipset	Intel® Q170
BIOS	AMI 16Mbit SPI BIOS
Memory	16GB or 32GB DDR4, 2133MHz, un-buffered and non-ECC type
Primary Storage	Up to 512GB Solid State Drive
Secondary Storage	Up to 2TB Solid State Drive
Graphics	Intel® HD 530 Graphics supporting triple independent displays
Audio	Realtek® ALC888-GR High Definition Audio with two (2) speakers
Displays	Three (3) 15.6" High Brightness (1500 nits) Full HD (1920x1080)
Network	One (1) Unmanaged Gigabit Ethernet Switch
Operating System	Windows 7 Pro
Encoder	One (1) Haivision Makito™ X Harsh High Profile H.264 Dual SDI Encoder 0-70°C Temperature Rating
Serial Device Server	Connects four (4) RS-232/422/485 serial devices to network as follows: <ul style="list-style-type: none"> <li>• Three (3) RS-232/422/485 interfaces on user accessible circular connector</li> <li>• One (1) RS-422 interface to Hand Controller interface</li> </ul>
Hand Controller Interface	Provides 28VDC power, and RS-422 serial interface for MX Hand Controller Unit
Portable Device Interface(s)	Two (2) independent portable device USB-C interfaces each providing: <ul style="list-style-type: none"> <li>• Fast charging</li> <li>• Network interface</li> <li>• Two (2) downstream USB-A ports</li> </ul>
User Accessible I/O	Two (2) RS-232 Two (2) USB 2.0 Four (4) USB 3.0 Two (2) Gigabit Network Interfaces
Optical Link I/O	Four (4) RS-232 One (1) 10/100Mbps Ethernet Two (2) Analog Video