

MOD-Box Series
Mission Critical Enclosure



- **High Security**
- **Corrosion Resistant**
- **Modular and Scalable**
- **MERV 5 & 11 Air Filtration**
- **Mount on any pole or flat surface**

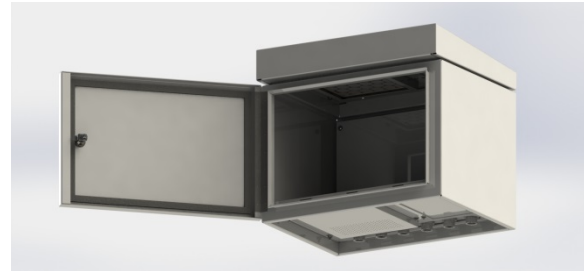


Enclosure Features

- ✦ **The First and only Scalable Enclosure** – Allows technicians to remove the Lid off an existing MOD-Box and add one or more additional Boxes providing the unique ability to “add-on” to existing solutions with minimal expense and more importantly minimal (if any) downtime. A vital feature in Mission Critical Systems.
- ✦ **Harsh Environment**
Non-ferrous construction to protect against oxidation.
- ✦ **Inherent Water-Proof design**
The design does not rely upon seals to protect against water intrusion it protects against water intrusion, natural and typical “wash-down” environments.
- ✦ **Vented, Filtered and Sealed Configurations**
Filtered Options – allows up to 30cu/ft per minute of air movement to cool electronics while maintaining a controlled environment.
MERV 5 replaceable air filter protects against moderately fine particulates.
MERV 11 replaceable air filter protects against ultra fine particulates.
Electro-Static washable aluminum filter reduces build-up of electrically charged dust particles on internal electronics.
Sealed- Ensures no intrusion of particulate matter.
- ✦ **Multiple Mounting Options**
Floor Mount – secures to virtually any surface.
Pole Mount (Round) – secures to any round pole up to 20” diameter. (High Security – can only be removed with access to the inside of the MOD-Box).
Pole Mount (Square) - secures to any square pole up to 20” wide. (High Security – can only be removed with access to the inside of the MOD-Box).
Wall Mount – secures to virtually any surface.
Unistrut Mount – designed to easily attach to common Unistrut.

MOD-Box Series

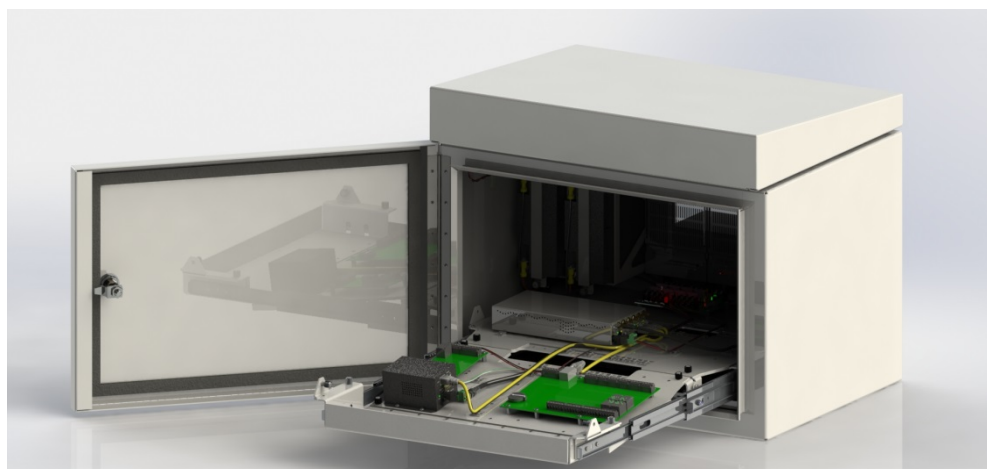
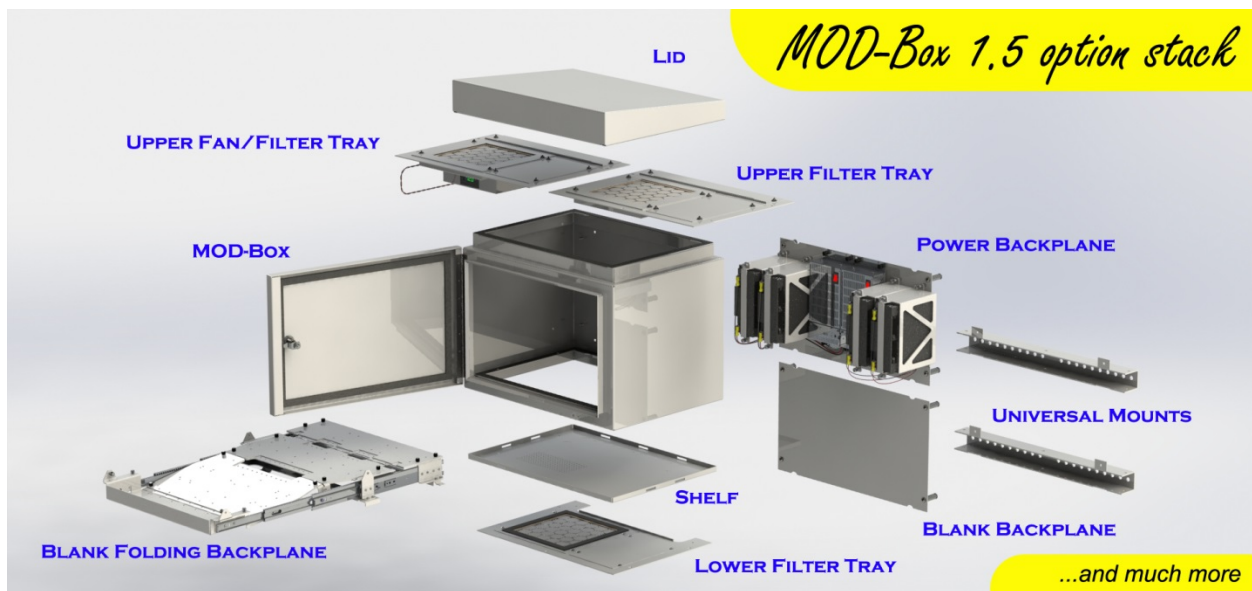
...From Patronus Labs



- ✦ **Standard and High Security Locking Systems**
Standard Security – utilizes a non-proprietary key locking system.
High Security – allows for the addition of a virtually unlimited array of key operated high security locks. (Provision of locks which will work with existing security systems can be provided – Contact Patronus).
- ✦ **High Gloss Polyurethane Finish** – Reduces solar loading in extreme environments by as much as 25F.
- ✦ **Modular Design** – Allows multiple MOD-Boxes to be stacked providing several individual enclosures or a single large interior compartment.
- ✦ **Robust Design**
Can accommodate up to three (3) Group 29 Batteries per box. Can accommodate up to up to 300lbs. of components per Box.
- ✦ **Managed Penetration** – Comes Standard with eight knockouts (1.111”) each accommodating standard ¾” conduit hardware making penetration easy and ensuring that all weatherization specifications are maintained during installation and integration.
- ✦ **OEM** – Patronus Laboratories Corp. can provide the MOD-Box with custom packaging and silk-screening to accommodate the needs of Original Equipment Manufacturers who wish to incorporate the MOD-Box as a standard offering with their Mission Critical Solution.

PRODUCT IDENTIFICATION CHART		
Division	Category	
Access Control	Application/Modular	Emb PC/Server Comp.
Computer Components	Access Control	PC/Server
Fixed Platform	Analytic Encoder	PC/Server Comp.
Housings/Mnts/Enclosures	Antenna	Power Supply
Mobile Platform	Battery	Radio
Power Gen/Storage	Camera	Sensor
Tools/Equipment	Camera Component	Sensor Component
Video Surveillance	Electrical	Video Encoder
Wire/Cables/Connectors	Electrical Component	
Wireless Equipment	Embedded PC/Server	



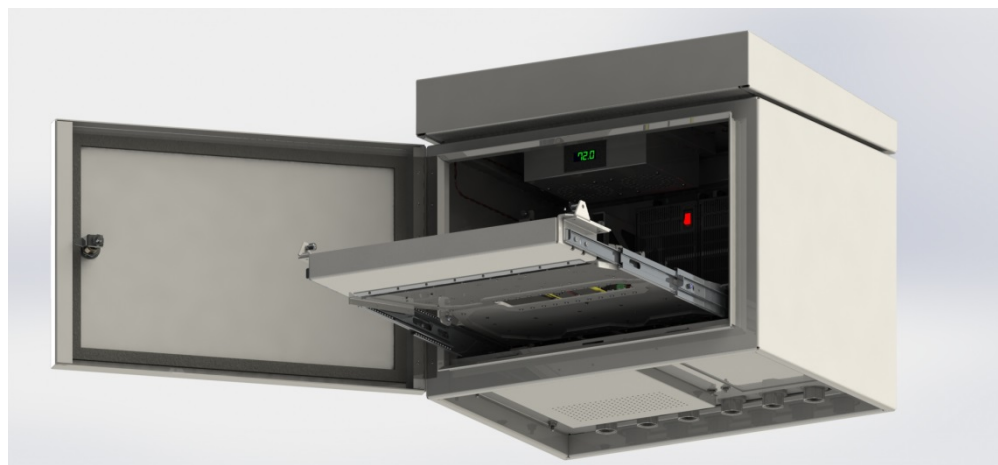


Sample Configuration:

- * MOD-Box Assembly
- * Lid Assembly
- * Filter/Fan Assembly
- * Power Backplane
 - 12V 150W PS
 - 24V 150W PS
 - 4x22Ah Battery Backup
- * Slide Out Folding Backplane
 - 3 Port WiFi Radio
 - 3 Door Access Control
 - IP Video Encoder
 - 8 Port Power Distribution

Services:

- * Solution design
- * Engineering
- * Factory Pre-Build, test and configuration
- * As-built documentation
- * OEM / ODM



Specifications

HMHE1118	MOD-Box 1.6
Ext. Height (Incremental per Section without Lid)	16.1" (41cm)
Ext. Height (Overall without Lid)	17.6" (45cm)
Ext. Height (Overall with Lid)	19.75" (50cm)
Ext. Width	23.5" (60cm)
Ext Depth (Overall MOD-Box Only)	18.2" (46cm)
Ext. Depth (Overall with Pole Mount)	20.3" (52cm)
Weight (MOD-Box, Door, Lid, Lock Only)	30lbs. (13.6kg)
Superstructure Material	Aluminum - 5052
Fastener Material	Stainless Steel - 18/8
Finish (Color)	High Gloss, True White
Finish (Material)	Polyurethane
Finish (Application)	Electro-statically applied (.004" Typical)

HMHE1119	Lid
Dimensions	23.2" (W) x 21.5" (D) x 3.5" (T)

HMHE1120	Shelf
Dimensions	22.5" (W) x 17.1" (D)
Load Capacity	300lbs
Knock outs	8 x 1.11"(3/4" Conduit), 6 x Double D

HMHE1121	Backplane
Dimensions	21.5" (W) x 12" (H)

HMHE1123	Slide out Folding Backplanes
Front Backplane Dimensions	16" (W) x 10" (H)
Middle Backplane Dimensions	16.5"(W) x 7"(H)
Rear Backplane Dimensions	19.6" (W) x 5.8"(D)
Load Capacity	40 lbs



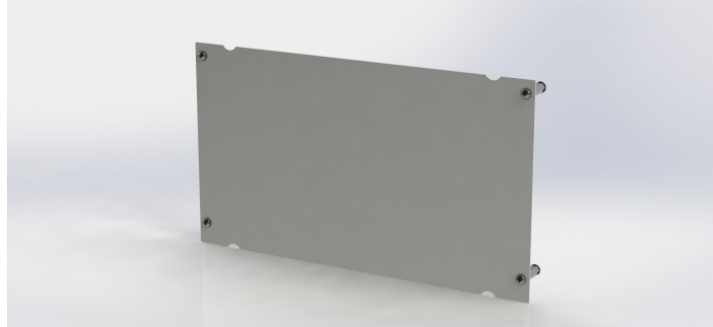

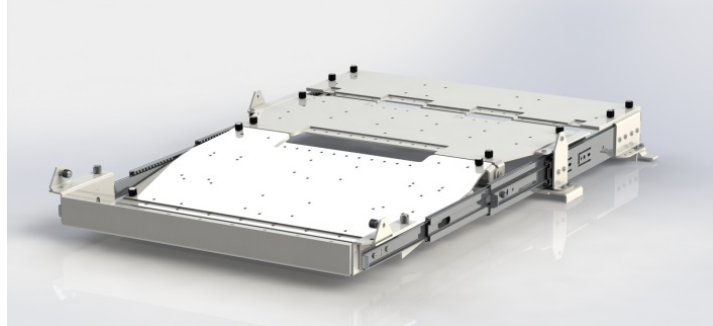
Ordering Options

PN	Description	Detail	Images
HMHE1118	MOD-Box Box Assembly	1 x MOD-Box, 1 x Lock, 1 x Key, Stainless Steel Hardware to secure shelf and/or joint two MOD-Boxes	
HMHE1119	Lid Assembly	1 x Lid, Stainless Steel Hardware to secure the Lid	
HMHE1120	Shelf Assembly	1 x Shelf	

DATA SHEET

Housings/Mounts/Enclosures


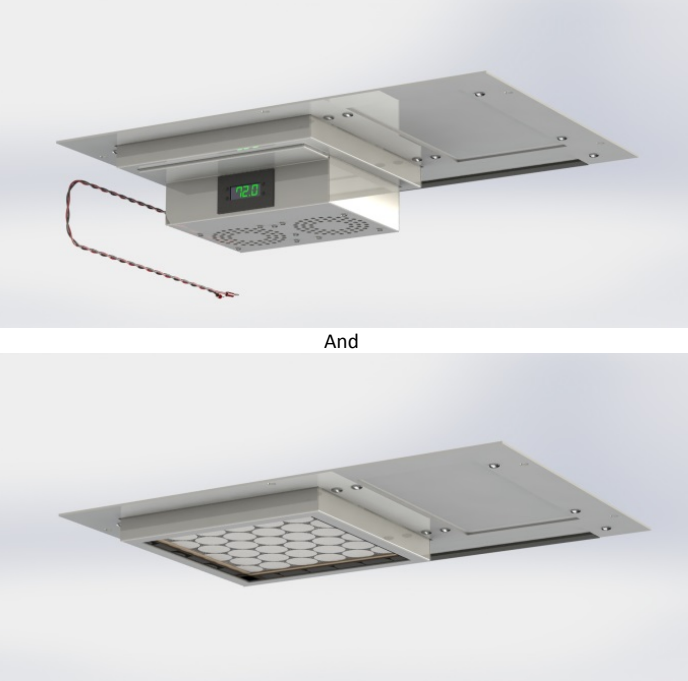
Application/Modular

<u>Internal Accessories</u>			
HMHE1121	Backplane Assembly	1 x Backplane, 4 x (Standoff, Washers, Screws)	
HMHE1122	Battery Tray Assembly	1 x 18 - 22AH battery Tray, 1 x Battery Tray Strap (Up to 4 per Backplane)	
HMHE1123	Slide Out Folding Backplane Assembly	1 x Slide Out Folding Backplane with blank front, middle and rear backplanes. *Image shows custom backplanes factory drilled with PEM nut inserts installed per client requirements.	

DATA SHEET

Housings/Mounts/Enclosures

Application/Modular

HWMS1132	Battery Hold Down Strap	1 x Strap for Group 31 battery for side to side tie down	
Cooling and Filtration			
HMHE1124	Fan/Filter Tray Assembly	1 x Upper Fan/Filter Tray, 1 x Lower Filter Tray	

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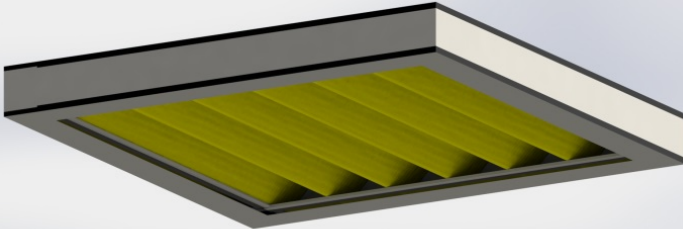
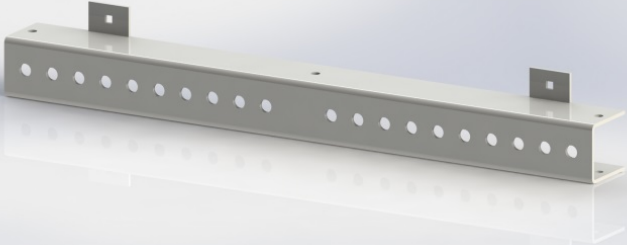
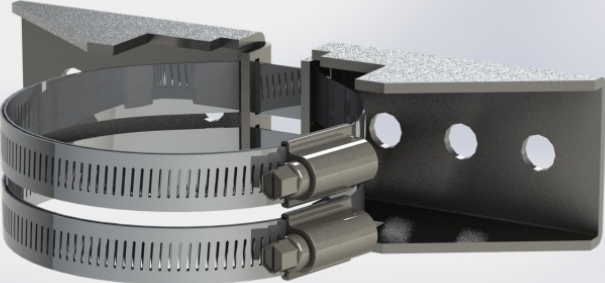
Application/Modular

HMHE1125	Filter Tray Assembly	1 x Upper Filter Tray, 1 x Lower Filter Tray	 <p>And</p>  
HWFT1093	Filter, Merv 5 Kit, Box of 12	12 x Merv 5 Filters with Gaskets	

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Housings/Mounts/Enclosures


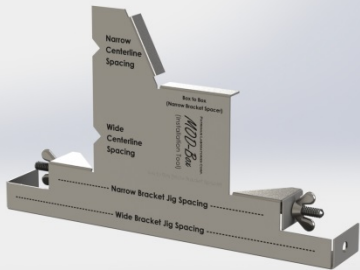


Application/Modular

HWFT1094	Filter, Merv 11, Box of 12	12 x Merv 11 Filters with Gaskets	
HWFT1095	Filter, Electro-Static, Box of 12	12 x Electro-Static Filters with Gaskets	Coming Soon
Mounting			
HMHE1127	Universal Mount Kit	2 x Universal mounts	
HMHE1128	Straps Mount Kit	4 x Stainless Steel Pole Mount Brackets, 4 x Stainless Steel Straps XX length for Poles from XX to XX diameter	

DATA SHEET

Housings/Mounts/Enclosures


Application/Modular

HMHE1129	Round U-Bolt Mount Kit	2 x Universal Mounts, 4 x Stainless Steel Pole Mount Brackets, 2 x Stainless Steel U-bolts (3.5" Inside Diameter)	
TBD	Floor Mounting Kit	2 x 90 degree legs	Coming soon
HWMS1131	Mounting Tool Kit	2 x Mounting Tools, Stainless Steel Hardware (Spacing guide used to accurately space Universal Mounts during installation)	
Exterior Accessories			
HWMS1086	Key	1 x Key	
HWMS1089	High Security Hasp	1 x High Security Hasp	 (1 per MOD-Box)

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Housings/Mounts/Enclosures

Application/Modular

HWMS1130	3/4-Inch Watertight Conduit Hub	1 x 3/4-Inch Watertight Conduit Hub	 <p>(6 knockouts per MOD-Box)</p>
TBD	Bottom Mount Box	1 x Bottom Mount Box	Coming soon
TBD	Side Mount Brackets	2 x 90 Degree Brackets	Coming soon
TBD	Bottom Mount Brackets	1 x Bottom Mount Box	Coming soon
	<u>Repair Kits</u>		
TBD	Door Gasket Kit	2 x Horizontal Gaskets, 2 x Vertical Gaskets	Coming soon
TBD	Lid Gasket Kit	2 x Side Gaskets, 1 x Front Gaskets, 1 x Rear Gasket	Coming soon
TBD	Shelf Gasket Kit	2 x Side Gaskets, 1 x Front Gaskets, 1 x Rear Gasket	Coming soon

Power Supply Options

- ✦ Grid Tie with UPS battery backup (Un-interruptible Power Supply)
 - 24VAC – 100VA
 - 12VDC – 150W, 18- 44aH, single or dual
 - 24VDC – 150W, 18- 44aH, single or dual
 - 48VDC – 150W, 18- 44aH, single or dual
 - 12VDC – 300W, 50-400aH
 - 12VDC – 300W, 50-400aH
 - 24VDC – 500W, 50-400aH
 - 24VDC – 500W, 50-400aH
 - 110/220VAC - 1500VA, 50-400aH
- ✦ Grid Tie no battery backup
 - 24VAC – 100VA, 175VA, 300VA
 - 12VDC – 150W, single or dual
 - 24VDC – 150W, single or dual
 - 48VDC – 150W, single or dual
- ✦ Solar
 - 10Amp Charge Controller
 - 15Amp Charge Controller
 - 30Amp Charge Controller
 - 45Amp Charge Controller
 - 60Amp Charge Controller



Already Engineered for

- ✦ Patronus Labs 4 & 8 Port PoE Switches
- ✦ Patronus Labs Rugged PC (ATOM, Celeron, i5, i7)
- ✦ Patronus Labs 900MHz -6GHz Wi-Fi Radios
- ✦ Mercury Access Control Panels
- ✦ Hikvision IP encoders
- ✦ DVTel/loimage IP encoders
- ✦ MOXA switch gear
- ✦ Cradle Point Cellular Modems
- ✦ Morning Star Charge Controllers
- ✦ Contact us to design in your selected device

