

## 3U INDUSTRIAL COTS CHASSIS

## MODEL 4403

Model 4403 is a member of NIS' 3U Industrial-grade COTS (ICOTS) chassis family, accommodating a 5-slot, 3U or 6U Eurocard backplane, or ATX motherboard.

**Field replaceable fan trays** are an option for the Model 4403 and utilize a separate intake and exhaust fan tray with an MTTR of <2 minutes, and are affixed to the main chassis using captive hardware.

**Peripherals** can be added to the Model 4403 for added functionality. An Optional Slim Line DVD Drive is shown in the product photograph.

**TMP Series Industrial-grade Power Supplies** are used on all ICOTS Chassis. The Model 4403 comes with a 450W AC input model. A 650W model is available; contact NIS for ordering and price information.

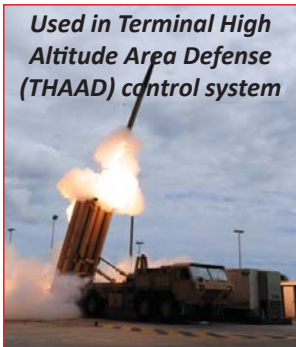
An optional **System Environmental Monitor (SEM)** can be installed inside the chassis to remotely (via onboard Ethernet TCP/IP) monitor and control chassis parameters to ensure optimal operating conditions. Budget-conscious configurations should consider the **SEM-Lite** automatic fan speed controller in lieu of the full-featured SEM.

**Customization** is available on all ICOTS Chassis models. Please contact NIS with your unique requirements!



- Welded bucket chassis provides high torsional rigidity and overall strength
- Tabletop, rackmount or custom configurations
- 5-Slot Eurocard backplane or ATX mobo
- Intake and exhaust fan trays are FRU design
- 6U x 160mm front subrack and 6U x 80mm Rear Transition Module (RTM) subrack
- System Environmental Monitor (SEM) option
- **New!** SEM-Lite automatic fan speed controller (optional in lieu of SEM)
- Customizable front and rear panels
- 450W industrial Power Supply (650W option)
- Autoranging 100-264 VAC input; optional 18-32 VDC input
- Front Mounted Power Switch and LED indicators
- Mounting for Low Profile Optical Drive and Dual 2.5" Slim Line Hard Drives (Slim Line DVD Drive Shown in Photo)

**Used in Terminal High  
Altitude Area Defense  
(THAAD) control system**



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# SPECIFICATIONS

## ENVIRONMENTAL CHARACTERISTICS

Temperature - Operating	-20°C to +50°C (100% rated output)
Temperature - Operating	-20°C to +70°C (75% rated output)
Temperature - Storage	-20°C to +85°C
Humidity, Operating	5-90% non-condensing
Vibration - Random	0.5G 10-2000 Hz
Vibration - Sinusoidal	0.5G 10-500 Hz
Bench Handling	Designed to meet MIL-STD-810F, Method 516.5 Procedure VI
Shock - Operating	1G, 11 ms ½ sine
Shock - Non-operating	2G, 11 ms ½ sine
EMC/EMI	FCC Class A EN 55022 A
Altitude - Operating	-1,500 ft. to 10,000 ft.
Altitude - Non-Operating	-1,500 ft. to 40,000 ft.
Inclination	0° to 30° in any axis
ESD	Designed to meet MIL-STD-1686A

## PERFORMANCE CHARACTERISTICS

Backplane	Up to 5-Slot Eurocard or Custom Front Loading Card Cage Rear Transition Module
Motherboard	Alternately, the chassis can be outfitted with one ATX style motherboard
System MTBF	Backplane: >100,000 hrs Motherboard: >50,000 hrs
Cooling	Field replaceable intake and exhaust fan trays with high CFM DC fans
Chassis Monitoring	Optional SEM System Environmental Monitor
Fan speed control	Optional SEM-Lite Automatic Fan Speed Controller
Disk drive configurations	1 ea. Slim Line DVD Drive (mounting) 2 ea. Slim Line 2.5" HDD (internal mounting) 1 ea. 3.5" HDD (internal mounting in lieu of mounting for 2.5 inch HDD)

## PHYSICAL CHARACTERISTICS

Size	19" W x 5.21" H x 18" D [20" D optional]
Weight	25 lb.
Mounting configurations	Rackmount or tabletop
Humidity	10% to 95%, non-condensing

## ELECTRICAL CHARACTERISTICS

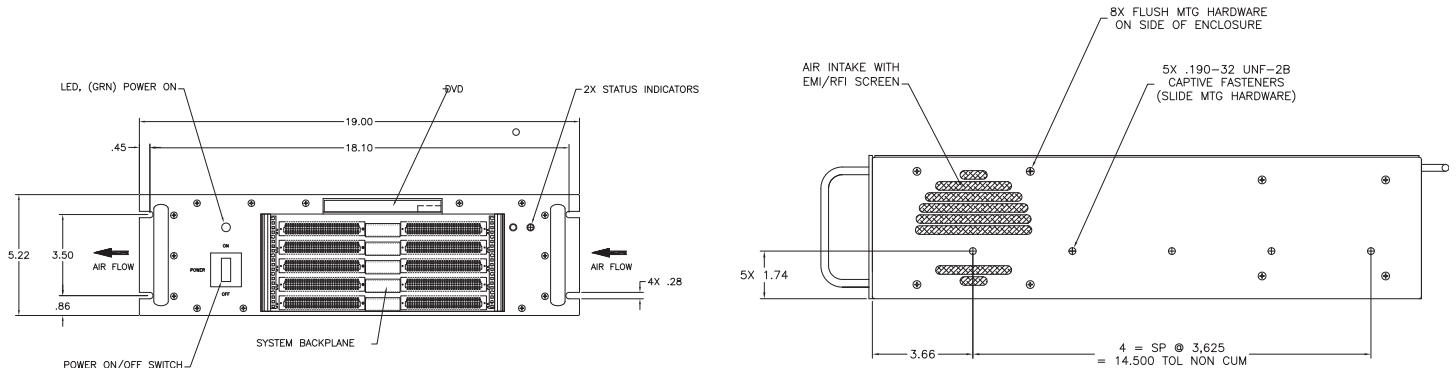
Input Power	Standard 100 - 264 VAC @ 47 - 63 Hz Options: 115 VAC @ 400 Hz; 18-32 VDC
Input Power Connector	IEC 60320 (C-14 Plug Type) Option: MS3472W12-3PY
Power Supply	Standard 450W Option: 650W

## ORDERING TABLE

<b>95-4403-05623-001</b>	5-Slot cPCI; rackmount; 450W TMP PS; Push-Pull fan system; No SEM or SEM-Lite fan controller; 18 in. D
<b>95-4403-05423-001</b>	5-Slot VME64x; rackmount; 450W TMP PS; Push-Pull fan system; No SEM or SEM-Lite fan controller; 18 in. D
<b>95-4403-05623-002</b>	5-Slot cPCI; rackmount; 450W TMP PS; Push-Pull fan system; SEM-Lite fan controller installed; 18 in. D
<b>95-4403-05623-003</b>	5-Slot cPCI; rackmount; 450W TMP PS; Push-Pull fan system; full SEM monitor/controller installed; 18 in. D
<b>95-4403-05423-002</b>	5-Slot VME64x; rackmount; 450W TMP PS; Push-Pull fan system; SEM-Lite fan controller installed; 18 in. D

More configurations are available; contact your local rep or NIS directly

## CHASSIS DRAWINGS



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