

MODEL 4506

DEVELOPMENT CHASSIS

HALF WIDTH / 42HP

6U PLUG IN BOARDS



NIS's small footprint, instrumentation-style enclosure is a development chassis with 42HP internal width accommodating up to ten (10) 3U x 160mm boards on 4HP centers (0.8 inch) or eight (8) boards on 5HP centers (1.0 inch). A typical VPX configuration consist of a 6 slot backplane on 5HP centers and a single plug in power supply. A rear transition card cage can also be installed which is accessible via a rear opening, hinged door, or custom I/O panel.

As with all NIS enclosures, Model 4506 may be configured with a 6U Eurocard backplane, such as VME64x, CompactPCI®, PXI, or VPX/OpenVPX. Optionally, a 6U x 80 mm rear transition module (RTM) subrack may be installed.

Standard configurations include a hard mounted 450W power supply which can be upgraded to 650W. Optionally, one or two PICMG 2.11 hot swap/redundant/N+1 plug-in power supplies can also be accommodated, with either AC or DC input.

Installed below the front subrack is a fan tray that provides aggressive air movement up through the front subrack and channeled through a specially designed plenum that runs along the top of the enclosure, with air egressed out the top.

The 4506 may be configured with NOVA's μ P-based System Environmental Monitor (SEM). The SEM monitors and controls critical system operational parameters such as temperature, fan speed, and input and output power; additionally, the SEM contains user-definable analog and digital channels as well as HTTP and SNMP protocols (in firmware).

For more information visit our web site: www.novaintegration.com

- ▶ **Supports 6U x 160mm boards**
- ▶ **Configurable with single or dual backplanes**
- ▶ **VME, VME64x, VPX/OpenVPX, CompactPCI or custom backplanes**
- ▶ **Meets IEEE 1101.1, 1101.10 and 1101.11 mechanical and EMC requirements**
- ▶ **AC and DC input power options**
- ▶ **PICMG 2.11 plug-in, N+1 power supplies**
- ▶ **Board pitches supported include 4HP (0.8") and 5HP (1") pitch**
- ▶ **Anti-rotation, extrusions with integrated card guides enhance chassis strength and resist torsional flex**
- ▶ **6U x 80mm RTM subrack option**
- ▶ **System Environmental Monitor option**
- ▶ **Aggressive air cooling via "push" fan tray**



ENVIRONMENTAL CHARACTERISTICS

Temperature, operating	-20°C to +70°C
Temperature, non-operating	-40°C to +85°C
Humidity	10% to 95%, non-condensing
Altitude, operating	-1,500 ft. to 25,000 ft.
Altitude, non-operating	-1,500 ft. to 40,000 ft.
Vibration	MIL-STD-810G, Method 514.5, Procedure I
Shock, operating	MIL-STD-810F, Method 516.5, Procedures VI
Shock, non-operating	MIL-STD-810G, Method 516.5, Procedures I, IV & VI
EMC	IEEE 1101.10
ESD	MIL-STD-1686A

HARDWARE PLATFORMS

Eurocard Backplane	Up to 10-slot, front loading subrack 8-slot on 5HP (1.0") pitch typical
System Environmental Monitor (SEM)	Optional See (SEM) data sheet
Rear Transistion (optional)	Customer definable rear I/O panel. Customer definable peripheral bay.

PHYSICAL CHARACTERISTICS

Dimensions	17.53" H x 12.35" W x 16.61" D (typical)
Weight	varies by configuration
Mounting	Tabletop

ELECTRICAL CHARACTERISTICS

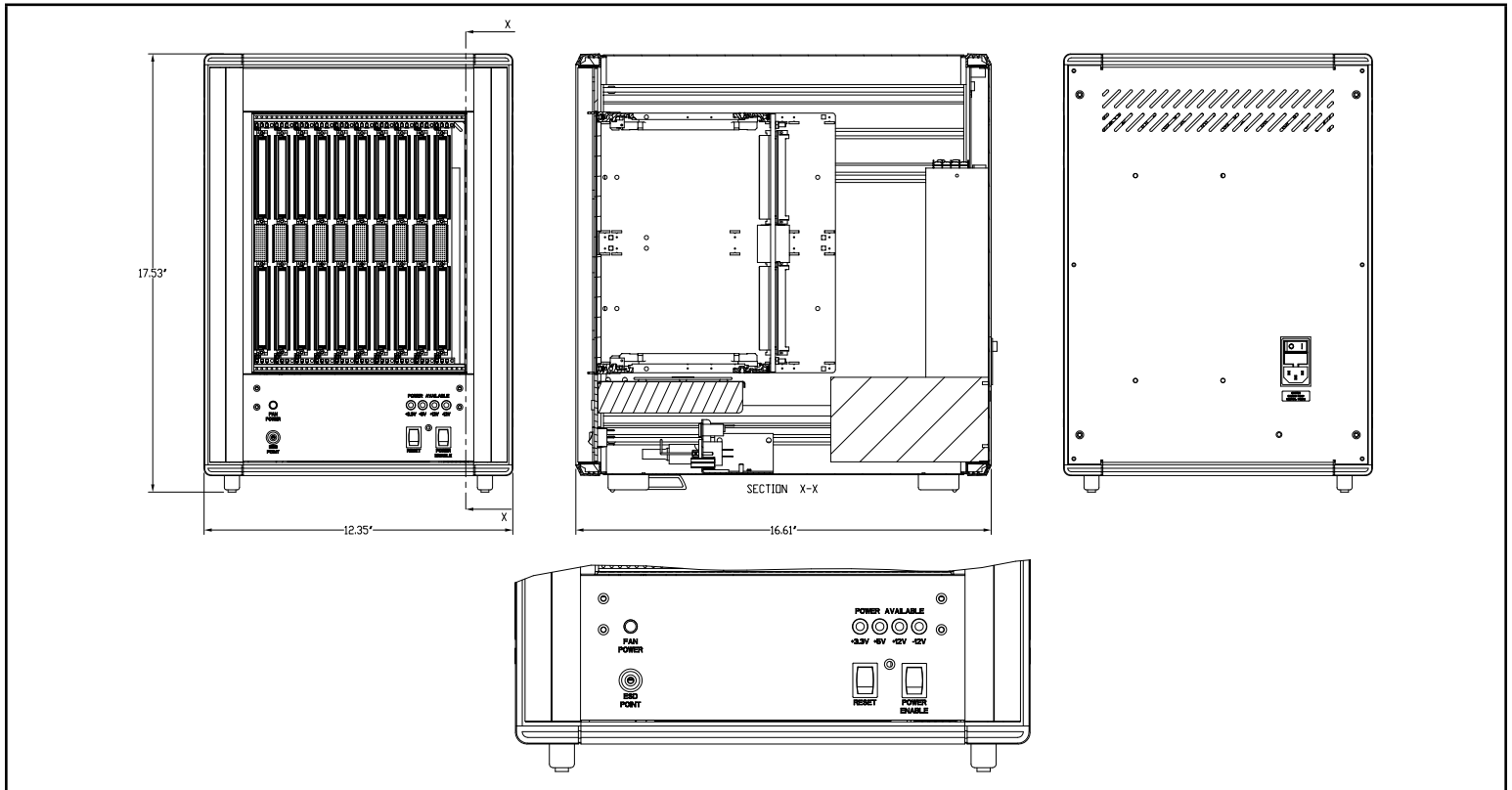
Input Power (standard)	85-264 VAC @ 47-63 Hz
Input Power (optional)	20-28 VDC 36-72 VDC Custom options available
Inrush Current	Varies with installed power supply Customer selectable including: NEMA 5-15P
Input Power Connector	MIL-C-26482 (M53472 or M53474) Customer Selectable
Power Supply Type	450W Hard mounted PSU 650W Hard mounted PSU (Optional) 500W Plug-in cPCI (Optional)

ORDERING TABLE (PARTIAL)

95-4506-10605-001	6U enclosure with 6U x 160mm subrack; 10-slot CompactPCI@ backplane; 450W hard mount PSU, 90-264 VAC @ 47-63 Hz input; tabletop
95-4506-08505-001	6U enclosure with 6U x 160mm subrack; 8-slot VPX backplane; 450W hard mount PSU, 90-264 VAC @ 47-63 Hz input; tabletop
95-4506-08405-500	6U enclosure with 6U x 160mm subrack and 6U x 80mm RTM; 8-slot VME64x backplane (w/P0); single 6U/8HP, 500W, PICMG 2.11 power supply, 90-264 VAC @ 47-63 Hz input; tabletop
95-4506-08605-500	6U enclosure with 6U x 160mm subrack and 6U x 80mm RTM; 8-slot CompactPCI@ backplane; single 6U/8HP, 500W, PICMG 2.11 power supply, 90-264 VAC @ 47-63 Hz input; tabletop
95-4506-06305-500	6U enclosure with 6U x 160mm subrack and 6U x 80mm RTM; 6-slot OpenVPX backplane; single 6U/8HP, 500W, PICMG 2.11 power supply, 90-264 VAC @ 47-63 Hz input; tabletop
95-4506-06505-500	6U enclosure with 6U x 160mm subrack and 6U x 80mm RTM; 6-slot VPX backplane; single 6U/8HP, 500W, PICMG 2.11 power supply, 90-264 VAC @ 47-63 Hz input; tabletop

Contact factory for additional configurations and options

OUTLINE DRAWING



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