HydraPort® 16 Module Retractable Ports

HPX-1600-NA-SL, US Version Silver (FG550-01-SL)
HPX-1600-NA-BL, US Version Black (FG550-01-BL)
HPX-1600-SL, International Version Silver (FG550-SL)
HPX-1600-BL, International Version Black (FG550-BL)

Overview

The HPX-1600 / HydraPort® 16 Module Retractable Connection Ports is a modular AV table box for connecting mobile devices to projectors or displays in a conference room or classroom. This sleek, ergonomic design is typically mounted in a conference room or classroom table, and features a retractable base station that smoothly rises to expose device connections and recedes back down to conceal the typical cable mess that can distract from the business at hand.

No matter how you bring in your content - via HDMI, VGA, USB and other popular formats - you have access to the cable or connection you need, whenever you need it. The HydraPort Architectural Connectivity System uses simple, interchangeable modules to put together the exact future-proof configuration you need today and tomorrow.

Common Applications

- With the largest number of modules available, the HPX-1600 is perfect for rooms that need the capability to connect many different device types to the AV system, or to provide AC power to several different devices
- The HPX-1600 is designed for premium conference rooms, classrooms and boardrooms that require sophisticated, elegant styling

- With the capability to accommodate AMX Metreau Keypads, the HPX-1600 is ideal for large rooms that require an additional control interface at the table

Features
- **Double Sided** – To provide easy access, the HPX-1600 is double-sided and each side accommodates 8 AV or Data modules, 4 Power modules, 2 Keypad modules or any combination of these.
- **Elegant and Unassuming** – The cable ring allows HydraPort to retract flush with the table once connections have been made without crimping or binding any connected cables. The typical wire mess is concealed.
- **Power for Everybody** – The integrated IEC power inlet assembly easily connects to four different power modules providing international power support for virtually every country.
- **Control The Room** – Add Metreau® or Novara Keypad modules to add device, lighting, shade or climate control as well as initiate pre-programmed events – all from the HydraPort console.
- **Simplifying the Installation** – A sturdy, re-usable cutting template and router bits are available to simplify the process of cutting the table or lectern, ensuring a correct fit every time.

Specifications

General	
Dimensions	Max above mounting surface: 9 9/16" x 10 9/16" x 4 1/2" (243mm x 268mm x 115mm) Max below mounting surface: 15 1/16" x 11 9/16" x 6 1/4" (383mm x 293mm x 159mm) Mounting surface footprint: 10 9/16" x 4 1/2" (268mm x 115mm) Min. mounting surface thickness: 3/4" (19mm) Max mounting surface thickness: 2" (50mm) Table Cutout Dimensions: Use Router Guide
Number of Modules Supported	Module sizes are provided in "HydraPort Units". Modules range in size from 1/2 to 4 1/2 HydraPort Units. Each of the two sides has room for 9 total "HydraPort Units" meaning that each side can support up to 9 total single-space modules. It is generally recommended to install a single-space blank as the top-most module on each side for visibility, leaving space for 8 single-space modules (8 HydraPort Units). These top-most blanks are included with the chassis. When using modules with a decor-style adapter plate as the top-most module, the single-space blank at the top can be omitted. When using a power module that requires 2.5 module spaces, the single-space blank at the top can be replaced with a half-space blank.
Weight	Base Assembly only: 4.4 lbs (2 Kg) Typical Installation: 6.6 lbs (3 Kg)
Available Models	HPX-1600-NA-SL, US Version Silver (FG550-01-SL) HPX-1600-NA-BL, US Version Black (FG550-01-BL) HPX-1600-SL, International Version Silver (FG550-SL) HPX-1600-BL, International Version Black (FG550-BL)
Enclosure	Natural finish metal frame with plastic top and bottom covers moving vertically in a plastic sleeve assembly. Matte black top cover and trim ring (FG550-BL, FG550-

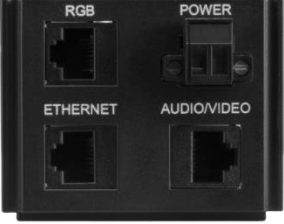|	
	01-BL) Matte silver top cover and trim ring (FG550-SL, FG550-01-SL) Matte black module face plates on all I/O modules
Connections	IEC 320 C14 Power cord receptacle on included power inlet assembly (FG550-BL, FG550-SL) Included AC Power Cord (FG-550-01-BL, FG550-01-SL) Rear connections for individual modules are routed through openings in the unit's bottom cover
Regulatory Compliance	UL 962A (N America versions only)
Recommended Accessories	See HPX-1600 Compatible HydraPort Connection Modules below •CBL-HDMI-FL, HDMI High Speed Flat Cable (FG10-2180-16) •CBL-DP-FL, DisplayPort High Speed Flat Cable (FG10-2181-16) •CBL-ETH-FL, Ethernet Cat5e Flat Cable (FG10-2182-16) •CBL-RGB+A-FL, RGB with Audio Flat Cable (FG10-2183-16)

HPX-1600 COMPATIBLE HYDRAPORT CONNECTION MODULES	
HPX-AV101-HDMI (FG552-24) Single HDMI Module with Integrated Cable	OVERVIEW The HPX-AV101-HDMI module provides a HDMI connection to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS HDMI connector REAR PANEL COMPONENTS 6' 6 3/4" (2 m) Cable to HDMI connector
HPX-AV101-DVI (FG552-23) Single DVI-D Module with Integrated Cable	OVERVIEW The HPX-AV101-DVI module provides a DVI-D connection to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS Female DVI-D connector REAR PANEL COMPONENTS 6' 6 3/4" (2 m) Cable to male DVI connector
HPX-AV101-DVI+A (FG552-22) DVI-D with Stereo Module with Integrated Cables	OVERVIEW The HPX-AV101-DVI+A module provides DVI-D video plus stereo audio connectivity to the HydraPort chassis with integrated video and audio cables. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS Female DVI-D connector Female 1/8" stereo mini-jack

	REAR PANEL COMPONENTS 6' 6 3/4" (2 m) Cable to male DVI-D connector 6' 6 3/4" (2 m) Cable to male 1/8" stereo mini-jack audio connector
HPX-AV100-CS+A (FG552-10) Composite with Stereo Module 	OVERVIEW The HPX-AV100-CS+A module provides composite video plus stereo audio connectivity to the HydraPort chassis DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS 3 female RCA connectors (1 for video, 2 for right/left audio) REAR PANEL COMPONENTS 6-position Phoenix screw-terminal connector
HPX-AV102-RGB+A (FG552-25) RGB with Stereo Module with Integrated Cables 	OVERVIEW The HPX-AV102-RGB+A module provides RGBHV video plus stereo audio connectivity to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS Female HD-15 connector Female 1/8" stereo mini-jack connector REAR PANEL COMPONENTS 6' 6 3/4" (2 m) Cable to male HD-15 connector 6' 6 3/4" (2 m) Cable to male stereo mini-jack connector
HPX-AV100-RGB+A (FG552-11) RGB with Stereo Module 	OVERVIEW The HPX-AV100-RGB+A module provides RGBHV video plus stereo audio connectivity to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS Female HD-15 connector Female 1/8" stereo mini-jack connector REAR PANEL COMPONENTS 9-Position Phoenix screw-terminal Connector for Video Signals 3-Position Phoenix screw-terminal Connector for Audio Signals
HPX-C5400-CS+A (FG552-50-BL-K) Composite with Stereo to Cat5 Module	OVERVIEW The HPX-C5400-CS+A module provides composite video plus stereo audio connectivity to the HydraPort chassis and activates on button press. DIMENSIONS 4.5 HydraPort Units

	FRONT PANEL COMPONENTS 3 female RCA connectors (1 for video, 2 for right/left audio) REAR PANEL COMPONENTS RJ-45 connector for UDM Cat5
HPX-C5400-VGA+A (FG552-51-BL-K) RGBHV with Stereo to Cat5 Module 	OVERVIEW The HPX-C5400-VGA+A module provides RGBHV video plus stereo audio connectivity to the HydraPort chassis and activates on button press. DIMENSIONS 4.5 HydraPort Units FRONT PANEL COMPONENTS 1 female HD-15 VGA connector 1 female 1/8" stereo mini-jack REAR PANEL COMPONENTS RJ-45 connector for UDM Cat5
HPX-C5400-CN+A (FG552-52-BL-K) Component with Stereo to Cat5 Module 	OVERVIEW The HPX-C5400-CN+A module provides component video plus stereo audio connectivity to the HydraPort chassis and activates on button press. DIMENSIONS 4.5 HydraPort Units FRONT PANEL COMPONENTS 5 female RCA connectors (3 for component video, 2 for right/left audio REAR PANEL COMPONENTS RJ-45 connector for UDM Cat5
HPX-N100-RJ45 (FG553-01) Single Ethernet Module 	OVERVIEW The HPX-N100-RJ45 module provides a single RJ-45 connection to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS 1 RJ-45 connector REAR PANEL COMPONENTS 8-position punch-down block

HPX-N102-RJ45 (FG553-02) Dual Ethernet Module 	OVERVIEW The HPX-N102-RJ45 module provides two RJ-45 connections to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS 2 RJ-45 connectors REAR PANEL COMPONENTS 2 8-position punch-down blocks
HPX-N100-USB (FG553-11) Single USB Module with Integrated Cable 	OVERVIEW The HPX-N100-USB module provides a single USB connection to the HydraPort chassis DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS Female USB Type A connector REAR PANEL COMPONENTS 6' 6 3/4" (2 m) Cable to male USB Type A connector
HPX-N102-USB (FG553-12) Dual USB Module with Printed USB Symbol 	OVERVIEW The HPX-N102-USB module provides a dual USB connection to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit WEIGHT .35 lbs (.16 Kg) FRONT PANEL COMPONENTS (2) Type A USB Sync Ports female REAR PANEL COMPONENTS (2) 6' (1.83 m) USB cable
HPX-N102-USB-PC (FG553-13) Dual USB Power Module with Printed Charging Symbol 	OVERVIEW The HPX-N102-USB-PC module provides a dual USB connection with charging capability to the HydraPort chassis. The power symbol on the module makes it easy for anyone to identify that power is provided. HPX-N102-USB-PC includes a PSU2.1 USB power supply and four power adapters to accommodate various wall outlet types. DIMENSIONS 1 HydraPort Unit WEIGHT .35 lbs (0.16 Kg) FRONT PANEL COMPONENTS USB Ports: (2) Type A USB Ports INTEGRATED CABLES USB Cables: (2) USB cables 6' (1.83 m) - connect the

	module to the USB Ports on the PSU2.1 USB Power Supply INCLUDED ACCESSORIES PSU2.1 USB Power Supply (FG423-25) SPECIFICATIONS FOR PSU2.1 POWER SUPPLY (INCLUDED WITH HPX-N102-USB-PC-MODULE) DIMENSIONS (HWD) 1.26" x 2.17" x 3.15" (3.2 cm x 5.5 cm x 8 cm) WEIGHT .25 lbs (93.3 g) CONNECTORS AND INDICATORS (2) USB Ports/LEDs •2 Charging Ports provide 2.1A USB charging (max per port) •4.2 A total is provided across both ports •Blue LEDs on each USB port light to indicate that power is available INCLUDED ACCESSORIES (4) Power Plug Adapters: • NEMA 1-15 (for North America) • BS 1363 (for UK and Ireland) • CEE 7/16 Europlug (for most European countries) • AS/NZS 3112 (for Australia and New Zealand)
HPX-CPT200 (FG552-41) Cable Pass-Thru Module 	OVERVIEW The HPX-CPT200 provides a convenient way to keep cables out of site in a HydraPort HPX-1600 chassis, while still being readily available to connect when needed. DIMENSIONS 2 HydraPort Units
HPX-U100-BTN (FG554-01) Single Button Module with LED 	OVERVIEW The HPX-U100-BTN module provides discrete button control to the HydraPort chassis. DIMENSIONS 1 HydraPort Unit FRONT PANEL COMPONENTS Single push-button with LED back-light Button LED inputs accept +12 VDC nominal voltage, and support an input voltage range of 8-18 V REAR PANEL COMPONENTS 2-position Phoenix screw-terminal connector for LED 2-position Phoenix screw-terminal connector for push button closure
HPX-U200-MOD (FG554-81) Modero® Connection Module	OVERVIEW The HPX-U200-MOD module provides a connection for

	a Modero Tabletop Touch Panel to the HydraPort chassis. DIMENSIONS 2 HydraPort Units FRONT PANEL COMPONENTS 3 RJ-45 connectors 1 2-position Phoenix connector REAR PANEL COMPONENTS 3 8-position punch-down blocks 1 2-position Phoenix screw-terminal connector
HPX-U400-MET-6N (FG554-11-BL-K) Metreau® 6-Button Keypad Kit with Carrier 	OVERVIEW The HPX-U400-MET-6N module is a Metreau 6-Button keypad in a carrier that allows it to be installed into the HydraPort chassis. FEATURES ° Includes navigation wheel for simplified control ° Blue LEDs light up when buttons are pressed ° Conveniently matches the styling of the NI-3101-SIG Controller DIMENSIONS 4.5 HydraPort Units FRONT PANEL COMPONENTS Pushbuttons – 6 tactile pushbuttons with blue LED indicators that illuminate when pressed to confirm the source/function was selected and that it is currently being used. These pre-printed buttons are field-replaceable IR Sensor – Supports standard AMX IR (38 kHz only) LED Levels Indicator - set of 7 blue LEDs provide level feedback Navigation Wheel – consists of 5 pushbuttons: 4 directional pushbuttons (up, down, right, left), 1 center pushbutton, and bi-directional rotating wheel for channel adjustments REAR PANEL COMPONENTS DIP switch – 8 position mini DIP switch used to set the device address for the keypad on the AxLink Bus (1-255) AxLink connector - 4 pin 3.5mm Phoenix connector for AxLink connection to the NetLinx Master
HPX-U400-MET-7 (FG554-13-BL-K) Metreau 7-Button Keypad Kit with Carrier	OVERVIEW The HPX-U400-MET-7 module is a Metreau 7-Button keypad in a carrier that allows it to be installed into the HydraPort chassis. FEATURES ° AxLink connectivity to NetLinx master Standard buttons include TUNER, DVD, LIGHTS, FAN, BLINDS, DISPLAY, and +/- ° Blue LEDs glow to indicate button selection

° Conveniently matches NI-3101-SIG Controller
° Bottom button can act as a single button or as two buttons

DIMENSIONS
4.5 HydraPort Units

FRONT PANEL COMPONENTS
7 tactile pushbuttons with blue LED indicators that illuminate when pressed to confirm the source/function was selected and that it is currently being used. These pre-printed buttons are field-replaceable. The bottom button functions as 2 buttons - there are 2 positions (left and right) that allow the user to control channel/levels (up/down).
Blue LEDs indicate activity

REAR PANEL COMPONENTS
DIP switch - 8 position mini DIP switch used to set the device address for the keypad on the AxLink Bus
AxLink connector - Wiring - 4-pin 3.5mm Phoenix AxLink connector

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HPX-U400-MET-13 (FG554-12-BL-K)
Metreau 13-Button Keypad Kit with Carrier

OVERVIEW
The HPX-U400-MET-13 module is a Metreau 13-Button keypad in a carrier that allows it to be installed into the HydraPort chassis.

FEATURES
° AxLink connectivity to NetLinx master
° Standard buttons include 1-9, 0, ENTER, SAVE, and +/-
° Blue LEDs glow to indicate button selection
° Conveniently matches the NI-3101-SIG Controller
° Bottom button can act as a single button or as two buttons

DIMENSIONS
4.5 HydraPort Units

FRONT PANEL COMPONENTS
13 tactile pushbuttons with blue LED indicators that illuminate when pressed to confirm the source/function was selected and that it is currently being used (12 single-width, 1 double-width). These pre-printed buttons are field-replaceable. The bottom button functions as 2 buttons - there are 2 positions (left and right) that allow the user to control channels (up/down).
Blue LEDs indicate activity

REAR PANEL COMPONENTS
DIP switch - 8 position mini DIP switch used to set the device address for the keypad on the AxLink Bus

AxLink connector - Wiring - 4-pin 3.5mm Phoenix AxLink connector

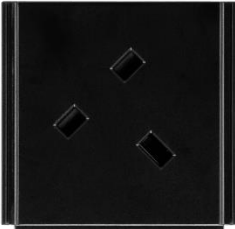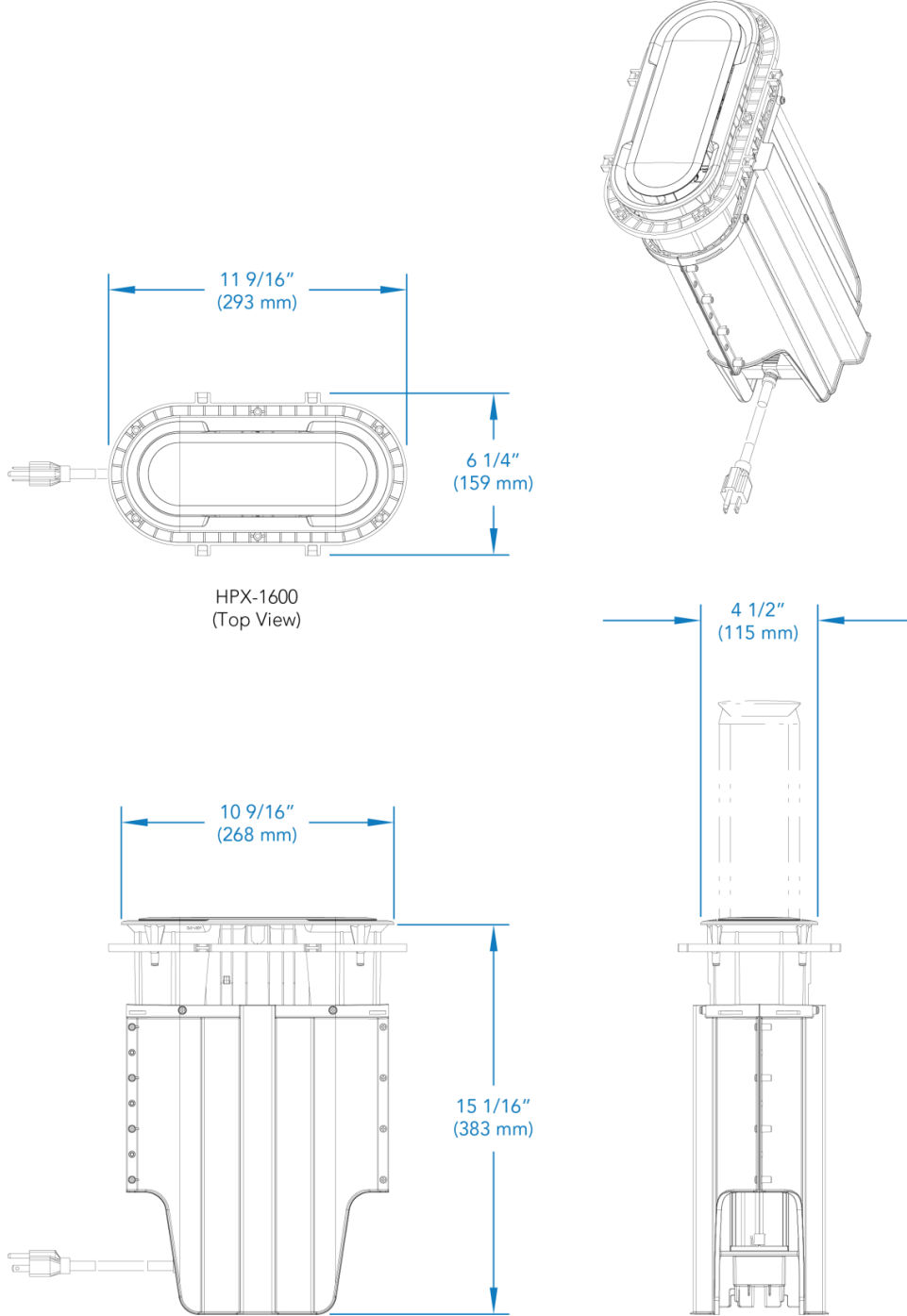| HPX-U400-CP-1008 (FG554-71-BL)
Novara 8-Button ControlPad (US) Module
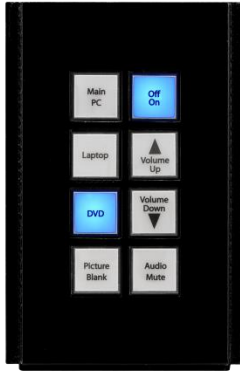
 | OVERVIEW
The HPX-U400-CP-1008 module is a Novara 8-Button (US) ControlPad designed to install directly into the HydraPort chassis.

FEATURES
° 8-button panel layout
° Blue, backlit buttons with programmable feedback
° Includes acetate sheet with 50 pre-cut button label inserts for easy, cost effective labeling
° 1315 events per panel

DIMENSIONS
4 HydraPort Units

BUTTON LAYOUT
8 buttons
Blue, backlit buttons with programmable feedback
MAX NUMBER OF EVENTS PER CONTROLPAD
1315

REAR PANEL COMPONENTS
2 current sink ports for control of external relays like the AMX UPC-20+
1 RS-232 port
1 IR port
1 input detection port
1 USB device configuration port

SUPPORTED BAUD RATES
1200 – 115200 |
| HPX-U400-SP-08-AX (FG554-51-BL)
Novara 8-Button Keypad with AxLink (US) Module
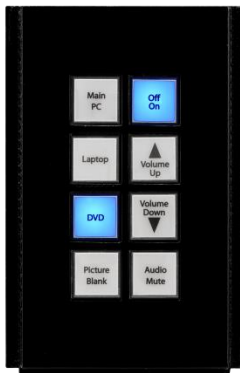
 | OVERVIEW
The HPX-U400-SP-08-AX module is a Novara 8-Button (US) AxLink KeyPad designed to install directly into the HydraPort chassis.

FEATURES
° 8-button panel layout
° 4-pin AxLink connector and Status LED
° Blue, backlit buttons with controllable feedback
° Includes acetate sheet with 50 pre-cut button label inserts for easy, cost effective labeling
° One bi-directional RS-232 port, with accompanying loop through

DIMENSIONS
4 HydraPort Units
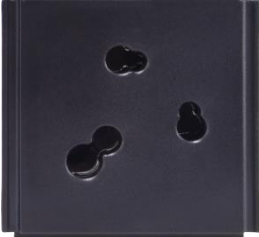
POWER REQUIREMENTS
Minimum: 80mA / Maximum: 130mA @ 12 VDC

BUTTON LAYOUT
8 buttons; blue, backlit buttons with controllable feedback |

	REAR PANEL COMPONENTS 4-pin AxLink connector/Status LED; RS-232 port, with accompanying loop-through port; power connector RS-232 PROTOCOL Baud rate: 9600 data Bits: 8 Stop Bits: 1 Parity: No Parity
HPX-P200-US (FG561-01) Power Outlet (US) Module	OVERVIEW The HPX-P200-US module provides power connectivity for US plug types to the HydraPort chassis. DIMENSIONS 2 HydraPort Units FRONT PANEL COMPONENTS US Power Receptacle REAR PANEL COMPONENTS Discrete hot, neutral and ground wires terminated in a 3-pin connector that connects directly to a mating header on the power inlet assembly
HPX-P250-UK (FG551-11) Power Outlet (UK) Module	OVERVIEW The HPX-P250-UK module provides power connectivity for UK plug types to the HydraPort chassis. DIMENSIONS 2.5 HydraPort Units FRONT PANEL COMPONENTS UK Power Receptacle REAR PANEL COMPONENTS Discrete hot, neutral and ground wires terminated in a 3-pin connector that connects directly to a mating header on the power inlet assembly
HPX-P200-EU (FG551-21) Power Outlet (EU) Module	OVERVIEW The HPX-P200-EU module provides power connectivity for EU plug types to the HydraPort chassis. DIMENSIONS 2 HydraPort Units FRONT PANEL COMPONENTS EU Power Receptacle REAR PANEL COMPONENTS Discrete hot, neutral and ground wires terminated in a 3-pin connector that connects directly to a mating header on the power inlet assembly
HPX-P200-AU (FG551-31) Power Outlet (AU) Module	OVERVIEW The HPX-P200-AU module provides power connectivity for AU plug types to the HydraPort chassis. DIMENSIONS 2 HydraPort Units

	FRONT PANEL COMPONENTS AU Power Receptacle **REAR PANEL COMPONENTS** Discrete hot, neutral and ground wires terminated in a 3-pin connector that connects directly to a mating header on the power inlet assembly
HPX-P250-IN (FG551-41) Power Outlet (IN) Module 	**OVERVIEW** The HPX-P250-IN module provides power connectivity for India and South Africa plug types to the HydraPort®. **DIMENSIONS** 2.5 HydraPort Units **FRONT PANEL COMPONENTS** IN Power Receptacle **REAR PANEL COMPONENTS** Discrete hot, neutral and ground wires terminated in a 3-pin connector that connects directly to a mating header on the power inlet assembly
HPX-B050 (FG558-01) 1/2 M Blank Panel 	**OVERVIEW** Blanks are available for unused slots in the HydraPort chassis. **DIMENSIONS** 1/2 HydraPort Unit
HPX-B100 (FG558-02) 1 M Blank Panel 	**OVERVIEW** Blanks are available for unused slots in the HydraPort chassis. **DIMENSIONS** 1 HydraPort Unit
HPX-B200 (FG558-03) 2 M Blank Panel 	**OVERVIEW** Blanks are available for unused slots in the HydraPort chassis. **DIMENSIONS** 2 HydraPort Units
HPX-B050-L (FG558-11) 1/2 M Custom Label Panel 	**OVERVIEW** The HPX-B050-L is a blank panel that is pad printed with custom text, and is available for labeling slots in the HydraPort chassis. **DIMENSIONS** 1/2 HydraPort Unit
HPX-B100-L (FG558-12) 1 M Custom Label Panel 	**OVERVIEW** The HPX-B100-L is a blank panel that is pad printed with custom text, and is available for labeling slots in the HydraPort chassis. **DIMENSIONS**

	1 HydraPort Unit
HPX-AC-SB (FG559-01) Stop Block 	OVERVIEW The HPX-AC-SB is a stop block used to permanently limit the vertical travel of a partially-filled chassis to only expose the populated modules.

For a more detailed pictorial drawing please visit: http://www.amx.com/products/HPX-1600.asp

11 9/16"
(293 mm)

6 1/4"
(159 mm)

HPX-1600
(Top View)

4 1/2"
(115 mm)

10 9/16"
(268 mm)

15 1/16"
(383 mm)