

OWNER'S MANUAL of ASR901 CENTRAL UNIT



This module serves as the central hub of the Warthog system. It facilitates communication between modules, handles MIDI-CV conversion, and provides the unique Adamsynths™ TOTAL RECALL feature, allowing patches to be saved and recalled.

The interface includes navigation and function buttons, an encoder, a 2.8-inch touchscreen display, and 12 analog CV outputs alongside 12 "digital" outputs, all of which can be freely assigned based on the needs of the patch. On the back panel of the Warthog, you'll find MIDI IN/OUT, a USB port, as well as WiFi and Ethernet connectivity.

MIDI to CV & USB MIDI to CV Interface: The analog outputs are independently configurable: they can function as NOTE, VELOCITY, AFTERTOUCH, PITCH BEND, or CONTROL CHANGE outputs. The source (USB or MIDI) is freely selectable. CV outputs can be switched, inverted, and operate within $\pm 5V$ or 0-10V ranges. They can be turned on/off or assigned fixed values: ON, OFF, -5V, 0V, +5V, or +10V. This is especially useful during live performance when rearranging patch cables is not desirable.

The "digital" outputs are also independently configurable: they can serve as GATE, TRIG, S-TRIG, SYNC, or CONTROL CHANGE outputs. The source can again be USB or MIDI. "D" outputs can be switched and inverted. In SYNC mode, a "D" output can be PPQN-based or assigned a SYNC DIV value (e.g., 1, 2, 4, 8, etc.).

DAW Integration: All parameters of the Warthog modules can be controlled via MIDI. These settings are accessible through the CENTRAL UNIT menu. Simply select the desired module and assign the appropriate MIDI controller to the chosen parameter.

Snapshots: Each patch can store up to 32 snapshots, managed by the CENTRAL UNIT. In the snapshot menu, you can define how snapshots are controlled or morphed: via MIDI, function buttons, the touchscreen, or using the Mood Wheels.

Menu of hidden parameters: Each module has its own settings accessible through the Hidden Parameters menu. After selecting a module, additional functions can be configured, and for certain modules, calibration parameters are also available here.

Firmware update: Warthog modules consist of digitally controlled analog circuits, offering vast potential for future developments. Firmware updates for the controllers are also handled via the CENTRAL UNIT. The system notifies users of available updates, but installation must always be manually approved by the user.

Features:



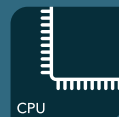
TOTAL RECALL



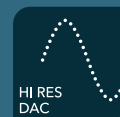
SYSTEM CONTROLLER



SHARE PRESETS



CPU



HI RES DAC



MIXED SIGNAL



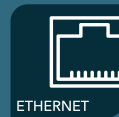
MIDI



USB MIDI



WiFi



ETHERNET



ASCON-26

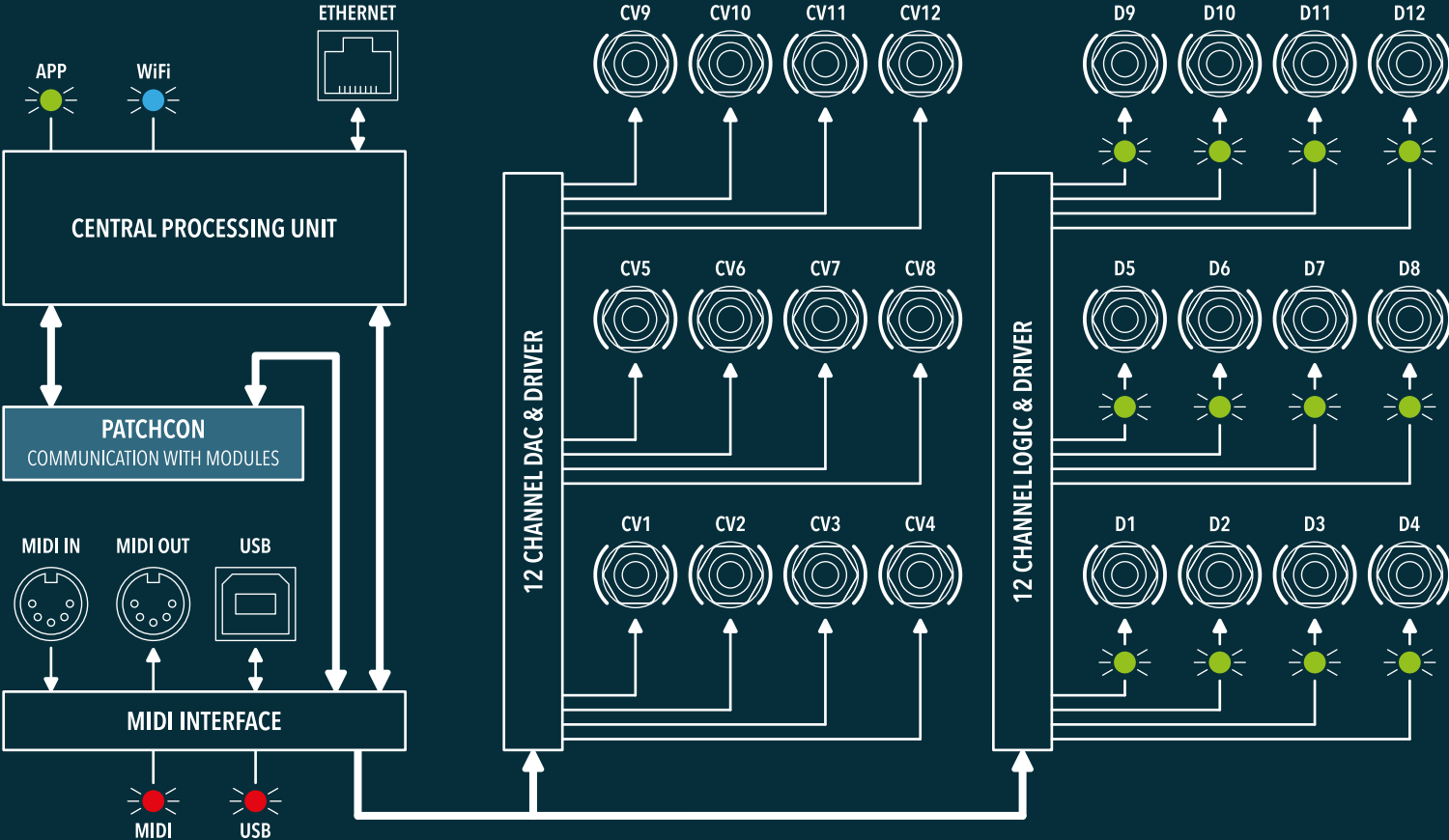


ASCON-14



BLOCK DIAGRAM of ASR901

CENTRAL UNIT



FRONT PANEL of ASR901

CENTRAL UNIT

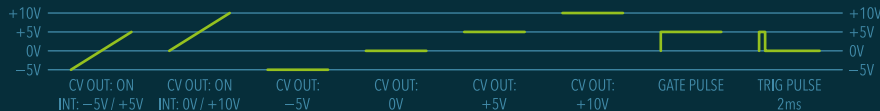


1. CV Outputs
(-5V to +5V or 0V to +10V)
2. Digital Outputs
(0V/5V, TTL, 2ms or continuous)
3. Navigation Buttons
4. Value Encoder and Exec Button
5. Function Buttons
6. 2.8 inch Touch Screen Display
7. MIDI Data Indicator
8. USB MIDI Data Indicator
9. Application Connection Indicator
10. WiFi Connection Indicator

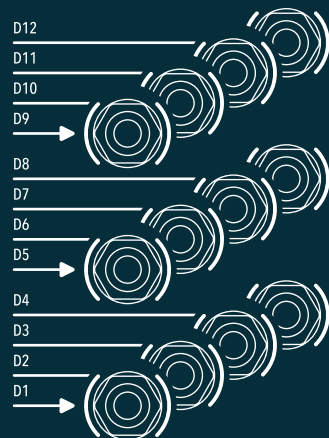
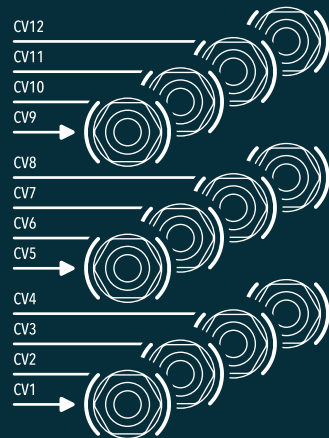


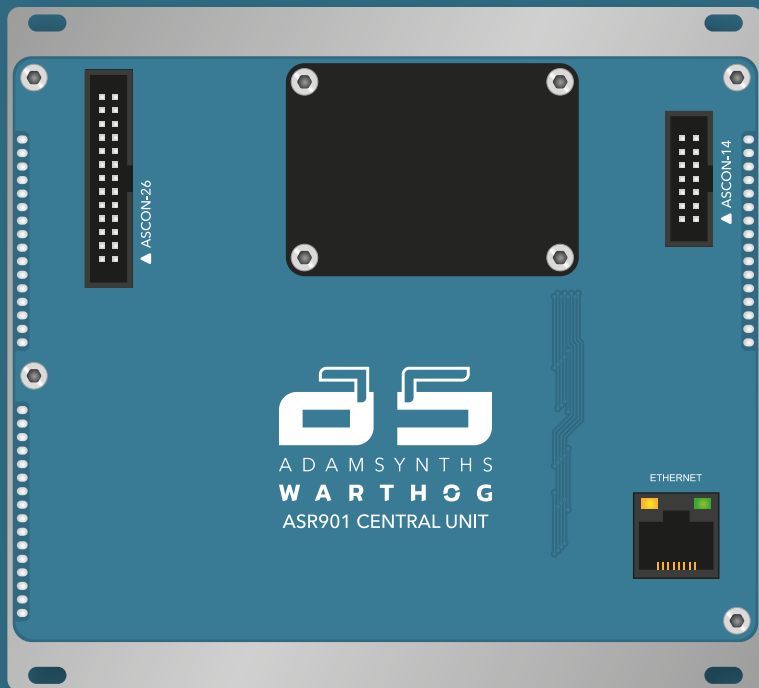
ROUTING MENU of ASR901

CENTRAL UNIT



		F1	F2	F3	F5	F6	F7	F8	
CV OUTPUTS	TYPE NOTE	SOURCE MIDI 1...16 / USB 1...16	POLARITY NORMAL / INVERT	PITCH BEND OFF ... 24 (SEMINOTES)	GLIDE MODE OFF UP DOWN BOOTH GATED	GLIDE TIME 20ms ... 10s	INTERVAL 0V to +10V / -5V to +5V	OUTPUT ON -5V 0V +5V +10V	
	TYPE VELOCITY								
	TYPE AFTERTOUCH								
	TYPE PITCH BEND			PITCH BEND OFF ... 24 (SEMINOTES)					
	TYPE CONTROLLER			CONTROLLER NUMBER 0 ... 127					
		F1	F2	F3	F5	F6	F7	F8	
DIGITAL OUTPUTS	TYPE GATE	SOURCE MIDI 1...16 / USB 1...16	POLARITY NORMAL / INVERT	SUSTAIN ON / OFF				OUTPUT ON / OFF	
	TYPE TRIG			ACTION NOTE ON NOTE OFF BOOTH					
	TYPE START / STOP								
	TYPE SYNC			DIVIDER OFF ... 1/32	OFF = PPON, 1/1, 1/2D, 1/2, 1/2T, 1/4D, 1/4, 1/4T, 1/8D, 1/8, 1/8T, 1/16D, 1/16, 1/16T, 1/32				
	TYPE RESET								
	TYPE CONTROLLER			CONTROLLER NUMBER 0 ... 127			CHANGE VALUE 0 ... 127		





BACK PANEL of ASR901 CENTRAL UNIT



Power Cons: -12V / N/A mA, +12V / N/A mA, +5V1 / N/A mA, +5V2 / N/A mA, +5V3 / N/A mA
System Connector: ASCON-26 (Use only Adamsynths ASR-PSU & ASR-RAILS for this module.)
Module Dimension: 28HP / Depth: 41mm, Module Weight: N/A g

SAFETY AND WARRANTY GUIDELINES

Please follow the instructions below regarding the use of Adamsynths™ devices, as only these ensure proper operation and the validity of the Adamsynths™ warranty.

- Use Adamsynths™ modules exclusively with the power supply (ASR-PSU) and rails (ASR-RAILS) provided with the Adamsynths™ system. Using power supplies or rails from other manufacturers may result in malfunction or permanent damage.
- No liquid substances (such as water or alcohol) or solid, conductive materials may enter the Adamsynths™ modules, as these may cause electrical short circuits or permanent damage. If this occurs, immediately disconnect the device from power and contact us via the SUPPORT page at www.adamsynths.com.
- Never attempt to repair the device or modify, delete, or hack the control firmware or software, as these actions will result in immediate loss of warranty.
- Do not expose Adamsynths™ modules to temperatures above +40°C or below -10°C. If the device has been transported at a temperature lower than room temperature, allow it to acclimate until all moisture has evaporated. This may take several hours. Only then should you connect it to power and begin operation.
- Always transport Adamsynths™ modules with care. Never allow them to fall or tip over. The warranty does not cover visually damaged products.
- Modules must be transported only in their original packaging. Products returned for replacement and/or warranty repair must be sent in their original packaging. All other shipments will be rejected and returned to you. Please ensure you retain the original packaging and technical documentation.

Adamsynths™ modules may become warm during several hours of operation – this is normal and not a cause for concern.

CLEANING AND MAINTENANCE: Clean the device daily. Always use a dusting brush and a soft, dry or slightly damp, non-abrasive cloth. Then wipe the device with a soft, dry cloth. Never use alcohol, benzene, thinner, acetone, or other solvents, nor alkaline or acidic cleaning agents, as these may cause discoloration or deformation.

WASTE DISPOSAL: Adamsynths™ devices comply with EU directives and are manufactured without the use of lead, mercury, cadmium, or chromium. They meet RoHS requirements. Nevertheless, these products are considered special waste and should not be disposed of with household waste.

Copying, distributing, or using the user manual for any commercial purpose is strictly prohibited and requires written permission from Adamsynths™. Specifications are subject to change without prior notice.

If you have any questions, feel free to contact us via the SUPPORT page at www.adamsynths.com/support

Detailed safety and warranty information is available at www.adamsynths.com/support.

Adamsynths™ - All rights reserved.

Bumblebee D.A.O. OÜ. Estonia, 10145, Tallin, Tornimae tn. 3// 5// 7//