

## AM100 Buffer IP Accessory

Assembly P/N 11027840

### DESCRIPTION

The AM100S provides dual output signal buffering for other C&H IP modules. The module attaches adjacent to other specially designed C&H IP modules through a 10-pin side connector\*. One or two output signals from the other IP module are buffered to provide up to  $\pm 300\text{ma}$  drive capability\*\* that will not oscillate while driving large capacitive loads. The buffers slew at  $800\text{ V}/\mu\text{s}$  and have a small signal bandwidth of  $50\text{MHz}$  while driving a  $50\Omega$  load. They feature built-in current limiting and thermal shutdown. Output impedance is typically  $3\Omega$ .

\* The module can also be used stand-alone to buffer external signals by using the I/O connector inputs.

\*\* Adequate air cooling must be provided to meet full drive capability.

The AM100 only uses the IP carrier interface to provide  $+12\text{V}$  and  $-12\text{V}$  power from the IP carrier. Signal ground is connected to the adjacent IP ground and only capacitively coupled to the IP carrier interface.

The mechanical dimensions of the module are in conformance with ANSI/VITA 4-1995 for single-wide IP modules. The nominal dimensions are  $3.900''$  ( $990.6\text{ mm}$ ) long  $\times$   $1.800''$  ( $4.572\text{ mm}$ ) wide. The environmental specifications of the module are:

Operating Temperature:	$0^{\circ}\text{C}$ to $+50^{\circ}\text{C}$
Storage Temperature:	$-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
Humidity:	$<95\%$ without condensation

Carrier modules may differ in environmental specification. Refer to the carrier's documentation for information.

### CONFIGURATION

Select the input source (IN1 or IN2) for each output using SW1 for output A and SW2 for output B. The input signals (IN1 and IN2) can either come from a compatible C&H IP module with a side mating connector or from the front I/O connector.

### INSTALLATION

Attach the AM100 to a C&H compatible IP module through the 10-pin connector at the edges of the two IPs to form a double-wide IP\*. Install the modules into an IP compatible carrier capable of supporting double-wide IPs. Secure the IPs with mounting hardware provided. Note: The module can be installed by itself if the external I/O inputs are being used.

### I/O CONNECTOR

Signal	Signal Pin	Signal Ground	Description
IN1	17	18	Input 1
IN2	33	34	Input 2
OUTA	21	22	Output of buffer A
OUTB	29	30	Output of buffer B

### WARRANTY

C&H Technologies, Inc. warrants its modules to be free from defects in material and workmanship for three years from date of shipment. C&H will repair or replace the defective product without charge within the warranty period, provided the defective item is shipped, freight prepaid, to C&H Technologies, at 15809 Vision Drive, Pflugerville, TX 78660. C&H will pay return freight charges to any point in the continental United States or Canada. Contact factory for full warranty statement.