

UxV/35 Development Set Usage

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The UxV/35 bus has a defined set of signals for usage on various Uncrewed Vehicles in different domains – Land, Surface and Air.

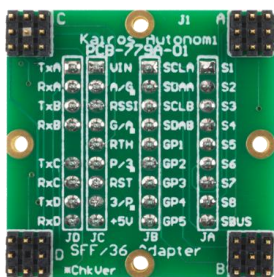
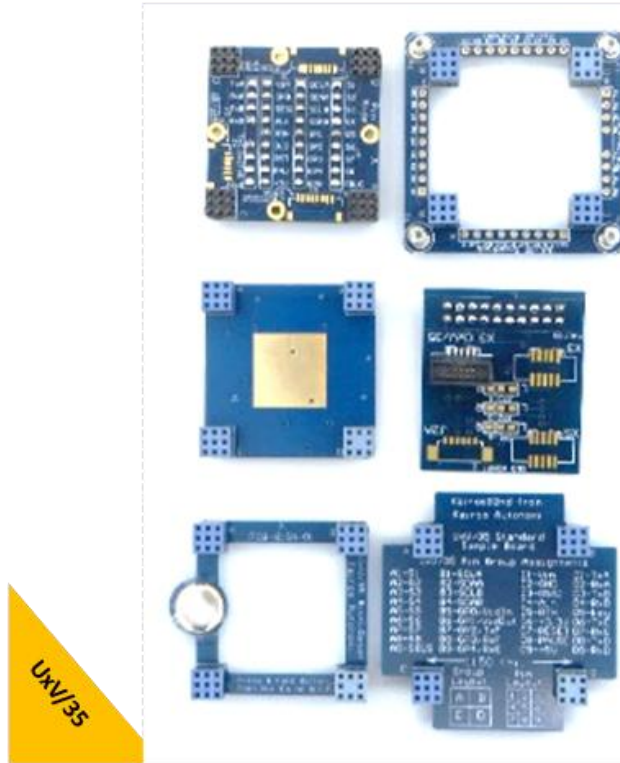
When developing a new system, sometimes there is need to attach the UxV/35 signals to external equipment such as programmers, logic analyzers, oscilloscopes, simulators, etc.

These boards make identification, access and connection easy and more robust.

Since these signals are active when the UxV/35 is active, these test boards can also be used for live systems testing and validation.

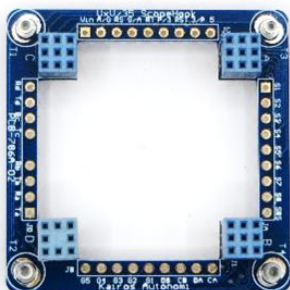
Creation and development of more complete UxV/35 systems is more easily enabled using the KA1082-01 UxV/35 Development Board Set.

KA1082-01 UxV/35 Development Boards



The Male Reflect board allows you to place a UxV/35 board upside down on the top of the stack for development and diagnostic purposes.

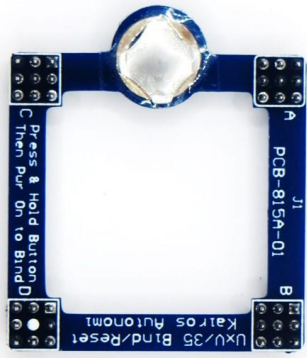
This is Ideal for a board that has additional In Circuit Programming (ICP) connections on the bottom of the board. Additionally, all of the UxV/35 signals are labeled for access with a scope.



The UxV/35 Scope Probe board makes easy access using an oscilloscope with 4 convenient ground lugs and clip holes for all signals. Each of the signal locations are labeled for rapid location. The center of the board is clear so that it can be used on either side of a board to gain access.

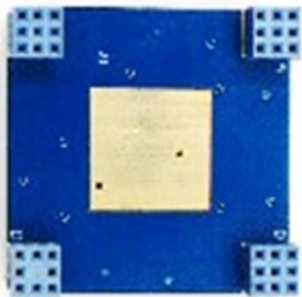
This is an ideal board for identifying and characterizing system wide.

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The Bind/Reset button, provides a convenient method of binding as UAV to an SBUS radio. It basically applies the UxV/35 reset signal when it is pressed.

This board is frequently placed on the top of a stack temporarily when a UxV/35 based radio must be bound to an external transmitter.

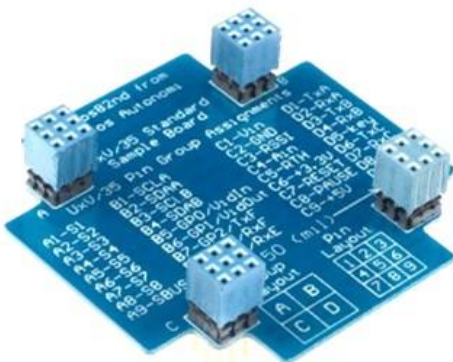


While electrical signal noise is seldom an issue in the UxV/35 stack, it is always a concern during system design and testing. This UxV/35 shield board provides a ground plane across the entire UxV/35 board area.

It can be placed anywhere in the stack for RF isolation and other more detailed noise testing. A convenient ground patch is available for a GPS antenna as well.



Various UxV/35 Mission Controller and other boards are programmed by Common ST programmers. This is an adapter board from a V2 ST programming board to other onboard processors found in a UxV/35 stack.



This is a UxV/35 standard pinout definition on a UxV/35 board. The pin numbering, pin grouping and pin assignments are clearly shown.

This board is frequently used to help bring someone new up to speed on how a UxV/35 bus is broken out for usage.