

The AGBRIDGE™ Drive – What is it?

The AGBRIDGE™ Drive (Drive) is a single board computer with its own microprocessor and persistent storage. It is designed to plug into the USB port of a Field Computer (Ag Controller) and perform the same data storage function as a USB flash drive and is controlled by the AGBRIDGE™ mobile app.

The outer case of the Drive is machined from aircraft aluminum that protects the single computer and acts as the device's heat sink. Each Drive comes with a mounting plate to allow for easy attachment to the mounting hardware (preferred) of the Ag Controller. If the Drive cannot be attached to the mounting hardware of the Ag Controller, it is very important that the Drive not be installed on the floor of the cab. In such instances it is preferred that the Drive not be mounted on any surface that is subject to heavy dust accumulation.

The Drive requires a power supply of a minimum of 1 amp @ 5 volts, which most controllers generate via the USB port. Controllers that do not provide sufficient power at the USB port require an auxiliary power supply kit that plugs into a 12 volt auxiliary receptacle, and for the Case IH AFS Pro 700 an additional rechargeable battery pack is required.

1. Controllers that require an Auxiliary Power Kit

Refer to “Installing an AGBRIDGE™ Drive” section “2” below for assembly and operation instructions.

- a. Case IH FM-1000™
- b. John Deere 2630
- c. Trimble FMX
- d. Raven Viper Pro
 - i. When using the front USB port an Auxiliary Power Kit is **typically not required**, although some older models may.
 - ii. An Auxiliary Power Kit **is required** if any of the USB ports on the back of the display have to be used.
- e. Viper 4

2. Controllers that require an Auxiliary Power Kit and a Rechargeable Battery Pack

Refer to “Installing an AGBRIDGE™ Drive” section “3” below for assembly and operation instructions.

- a. Case IH AFS Pro 700
 - i. **NOTE:** It is important to be sure that the AGBRIDGE™ Drive is powered up completely before turning on the AFS Pro 700 controller. To do this, toggle the USB switch to the “on” position and allow 30 seconds for the Drive to completely power up. It is good practice to always turn the Controller off prior to powering down the AGBRIDGE™ Drive.

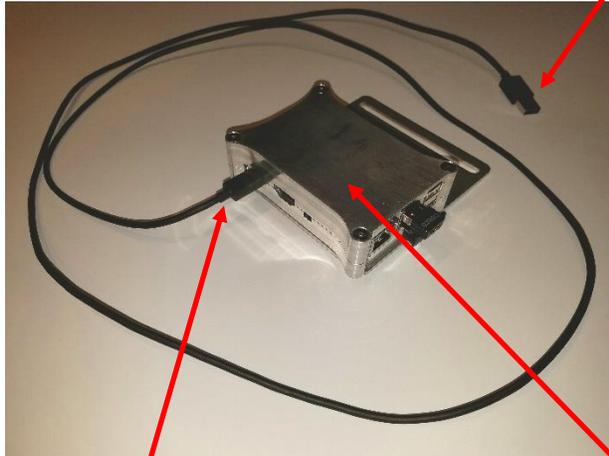


- ii. **NOTE:** Refer to “Sending Data from Field to Office” Quick Reference, page 2, section “1d” and “Sending Data from Office to Field” Quick Reference, page 2, section “1d” for instructions regarding operation.

Installing an AGBRIDGE™ Drive

1. USB Port Powered Installation (Figures 1 & 2)

Figure 1



6' Micro USB Type C cable
(included w/ Drive)

Standard USB male plugs into controller's USB port

Figure 2



AGBRIDGE™ Drive with universal mounting plate

2. Installation requiring an Auxiliary Power Supply Kit (See Figure 3 below)

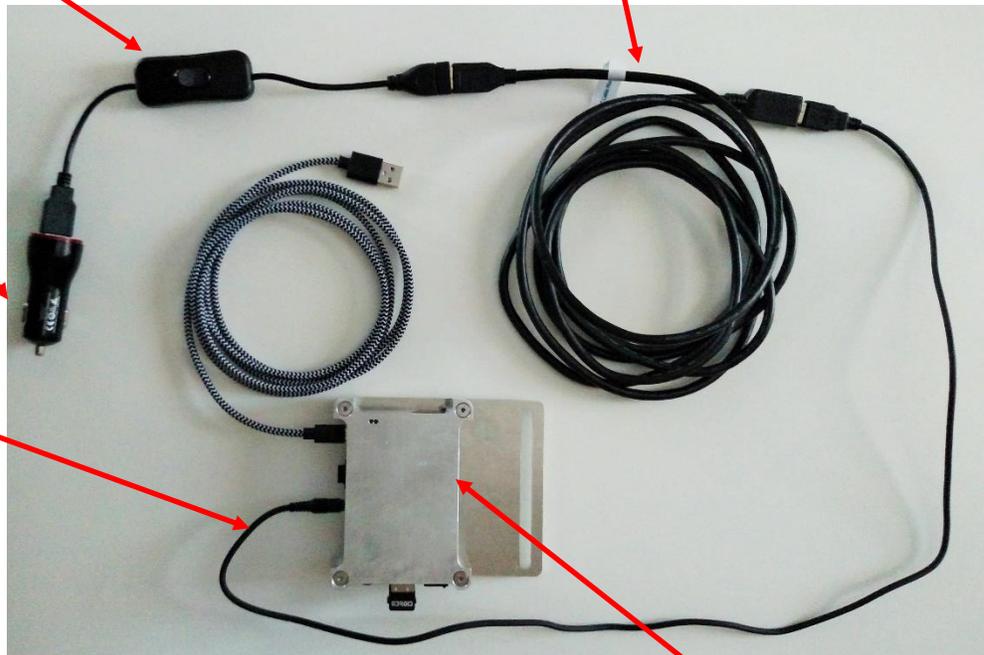
USB power switch

6' USB extension cable
(male to female)

Figure 3

12 volt adapter -
plugs into 12 volt
receptacle

USB (male) to
barrel connector
cable - connects 6'
USB cable to
AGBRIDGE Drive

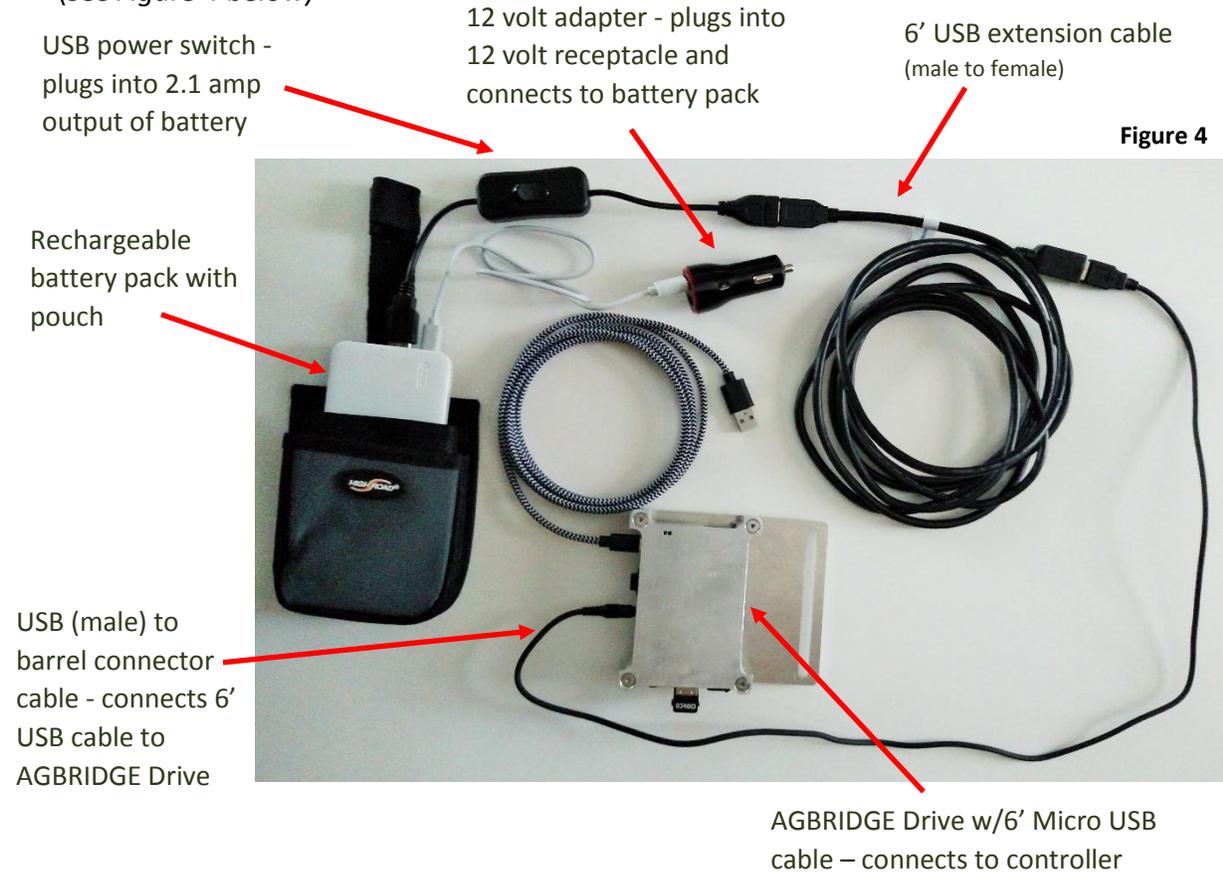


AGBRIDGE Drive w/6' Micro USB
cable – connects to controller

Section 2 Note: It is preferable to use a 12V receptacle that is connected to “switched power” when operating with only an Auxiliary Power Supply Kit. If this is the case, the USB power switch can be left on at all times. **If not, it is important to remember to toggle the USB power switch to the “off” position when finished.**

3. Installation requiring an Auxiliary Power Supply Kit + Rechargeable Battery Pack

(See Figure 4 below)



Section 3 Note 1: The rechargeable battery pack charges and discharges simultaneously when connected to a powered 12V receptacle. It is preferable to use a 12V receptacle that is connected to “switched power” if possible; however the current draw when charging is typically not enough to cause significant power drain of the equipment’s battery system. **Always be sure to toggle the USB power switch to the “off” position when finished.**

Section 3 NOTE 2: It is important to be sure that the AGBRIDGE™ Drive is powered up completely before turning on a controller that requires a rechargeable battery pack. To do this, toggle the USB switch to the “on” position and allow 30 seconds for the Drive to completely power up. It is good practice to always turn the Controller off prior to powering down the AGBRIDGE™ Drive.