



ARINC 818 HS SAM Gen II

High Speed Stand Alone Module

This new generation unit connects HS SAMView2 software via USB 2.0 for more flexible, efficient ARINC 818 testing. Use HS SAM Gen II in lab or simulator settings, aircraft production facilities, or flight testing. SAM status and link status indicators report system health at a glance—from the GUI as well as the hardware. Use HS SAMView2 to control multiple SAMs.



Applications

Great River can configure an HS SAM according to your ICD with link rates up to 4.25 Gb/s. Each unit can fulfill one of these key functions:

- ARINC 818 to DVI
- DVI to ARINC 818
- Test pattern generator
- Video monitor / line spy

Specifications

Power requirement	4.3W (180mA @ 24V)
Power supply	24Vdc; shipped with switching adapter for 100–250VAC @ 50–60Hz
Form factor	Aluminum housing, 18 x 10.5 x 3.3cm (7.1 x 4.1 x 1.3")
Operating temp.	0–50°C (0–131°F)
Connectors	DVI; fiber optic LC or copper FCN; USB (2.0 required)

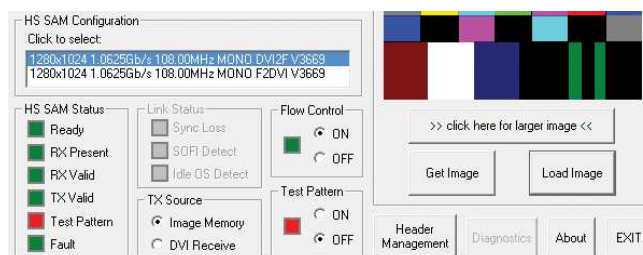
SAMView2

With the HS SAMView2 GUI and a USB 2.0 interface, no programming is required to command the powerful features of the HS SAM Gen II:

- Loading and retrieval of ARINC 818 images and data
- Header management: save and restore transmit header data to non-volatile RAM—to be loaded

automatically at power-up; read transmit header data from file, edit the data (if desired) and load the data into the SAM

- Remote monitoring of unit and link status
- Video source manipulation—for example, test patterns, DVI in, static images
- Control of multiple SAMs



Partial view of HS SAMView 2 GUI

Software Development Kit

An option with the HS SAM Gen II is an easy-to-use ARINC 818 application programming interface (API). Software developers use its API library to quickly create custom test applications that communicate with the SAM. Full API function documentation and example code are included. No knowledge of the USB layer is required; the API handles all USB communication.

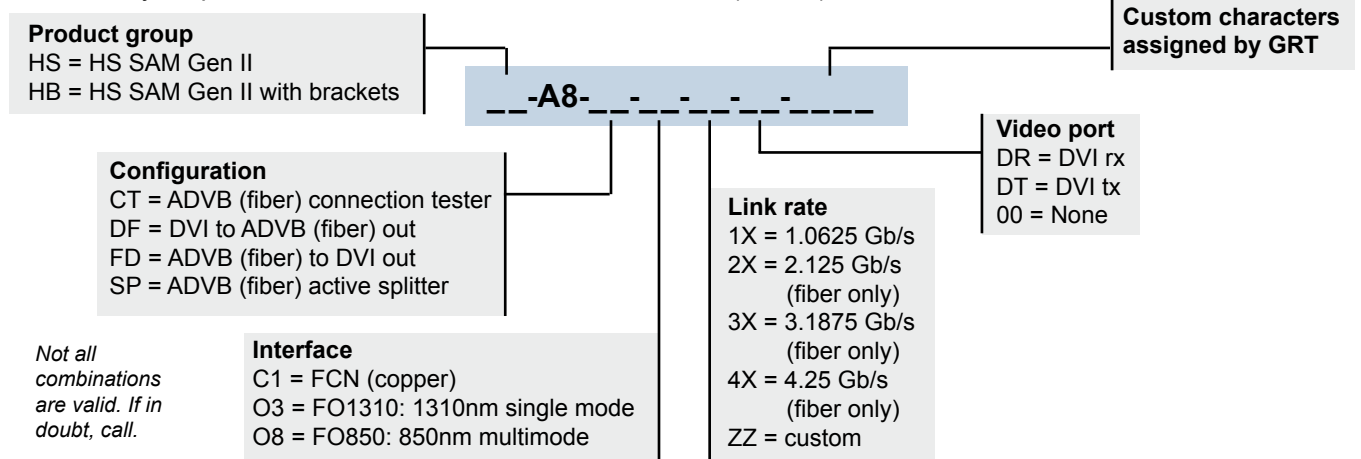


Choices include mounting flange brackets (Product group HB).



How to buy

Determine your part number* for ARINC 818 HS SAM Gen II (HS-A8) as follows:



For example:

HB-A8-FD-O3-2X-DT-0000 or HBA8FDO32XDT0000

*Great River Technology revised its part numbering system effective April 2013. For details, see Part Numbers: (<http://www.greatrivertech.com/pns.html>).

To order, consult our [Distributors](#) page:

(<http://www.greatrivertech.com/distributors.html>).

If no distributor is listed for your region or country or if you need additional information about our custom firmware, contact our headquarters in Albuquerque.

Rugged video converter module

Great River can create customized units such as this ruggedized, flight-hardened video converter module (VCM). Those units can be factory configured for any one of these conversion formats:

- ARINC 818 to DVI
- DVI to ARINC 818
- ARINC 818 to VGA
- ARINC 818 to Analog (NTSC, PAL, STANAG 3350, RS-170)
- Analog to ARINC 818

The VCM is designed for flight-test and production programs. Its EMI-shielded design offers HIRF protection in a rugged case accommodating a robust D38999 Series circular connector. Its size (113 x 98 x 35 mm / 4.45 x 3.86 x 1.38 inches), accommodates space-limited applications.

Great River can certify these units for DO-254 or environmental qualifications, such as DO-160 or Mil-Std-461 or Mil-Std-810. For further VCM details, see our VCM datasheet or contact GRT directly.



Concept of a rugged VCM