



## ARINC 818 HS SAM

### High Speed Stand Alone Module—ARINC 818 Converter

The HS SAM is factory configured to convert DVI to or from ARINC 818, following your ICD. Use it in lab or simulator settings, aircraft production facilities, or flight testing. HS SAMView2 software controls one or more SAMs. Link-status and unit-status indicators report system health at a glance—from the GUI as well as the hardware.



### Applications

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

- ARINC 818 to DVI converter
- DVI to ARINC 818 converter with line-spy capability

Both configurations generate test patterns.

### HSC SAM

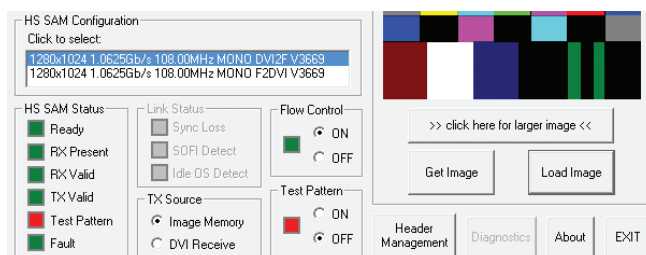
High-speed coax (HSC) is now an option for SAM. Bi-directional signaling (high-speed video in one direction, low-speed control data in the other) can pass through a slip ring on common coaxial cable.

### 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, copper FCN, or high-speed coax (HSC); 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:

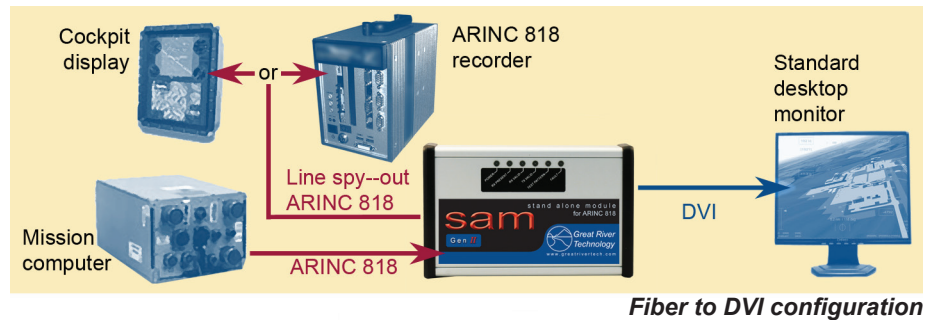


Partial view of HS SAMView 2 GUI

- 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



Choices include mounting flange brackets (product group HB).

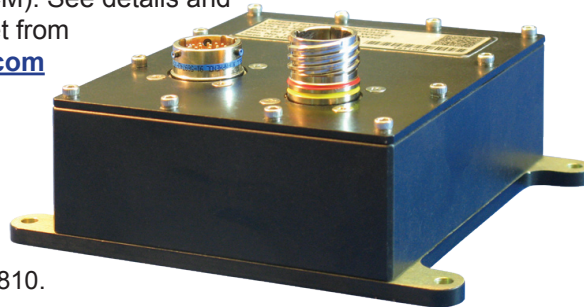


## Flyable Converter

A rugged, flyable version of GRT's HS SAM is the Video Converter Module (VCM). See details and download its datasheet from

[www.greatrivertech.com/arinc-818-vcv.html](http://www.greatrivertech.com/arinc-818-vcv.html).

GRT can certify these units for DO-254 or environmental qualifications, such as DO-160, Mil-Std-461, or Mil-Std-810.

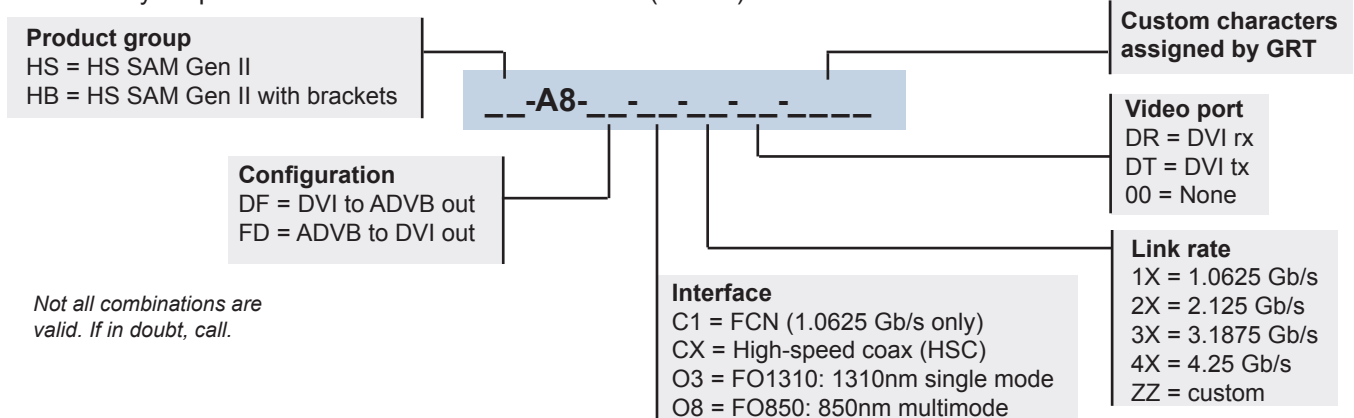


## Software Development Kit

An option with the HS SAM 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.

## How to buy

Determine your part number\* for ARINC 818 HS SAM (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>).

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