



Acqiris ADC card

- **Made in Switzerland**



SA108P - 8-bit PCIe ADC card

SA108P features:

- 8 bit
- One channel
- Sampling rate: 1 GS/s Max
- Bandwidth: 500 MHz Max.
- Full scale ranges (FSR) :
 - ✓ 50 mV ~ 1 V (-LVR)
 - ✓ 250 mV ~ 5 V (-SVR)
- Input voltage offset: ± 0.6 FSR Max.
- Impedance: 50 Ω , DC coupling
- Interface: PCIe 3.0 x8
- On-board memory: 4 GB Max.
- Supported firmware: DGT、AVG、CST、PKL、ZS1



SA108P selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA108P	8 bit	1	Default: 1GS/s -LSR: 0.5GS/s	-MEA: 1GB -MEB: 4GB	-DGT -AVG -CST -PKL -ZS1	-F03: 300MHz -F05: 500MHz	-LVR: 50mV, 100mV, 200mV, 500mV, 1V -SVR: 250mV, 500mV, 1V, 2.5V, 5V



SA108E - 8-bit USB-C Thunderbolt ADC card

一、SA108E features:

- 8 bit
- One channel
- Sampling rate: 1 GS/s Max
- Bandwidth: 500 MHz Max.
- Full scale ranges (FSR) :
 - ✓ 50 mV ~ 1 V (-LVR)
 - ✓ 250 mV ~ 5 V (-SVR)
- Input voltage offset: $\pm 0.6\text{FSR}$ Max.
- Impedance: 50 Ω , DC coupling
- Interface: USB-C Thunderbolt-3
- On-board memory: 4 GB Max.
- Supported firmware: DGT、AVG、CST、PKL、ZS1



SA108E selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA108E	8 bit	1	Default: 1GS/s -LSR: 0.5GS/s	-MEA: 1GB -MEB: 4GB	-DGT -AVG -CST -PKL -ZS1	-F03: 300MHz -F05: 500MHz	-LVR: 50mV, 100mV, 200mV, 500mV, 1V -SVR: 250mV,500mV, 1V,2.5V, 5V



SA120P - 8-bit PCIe ADC card

SA120P features

- 8 bit
- 2 channels
- Sampling rate: 2 GS/s Max
- Bandwidth: 500 MHz Max.
- Full scale ranges (FSR) :
 - ✓ 50 mV ~ 1 V (-LVR)
 - ✓ 250 mV ~ 5 V (-SVR)
- Input voltage offset: $\pm 0.6\text{FSR}$ Max.
- Impedance: 50 Ω , DC coupling
- Interface: PCIe 3.0 x8
- On-board memory: 4 GB Max.
- Supported firmware: DGT、AVG、CST、PKL、ZS1



SA120P selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA120P	8 bit	2	Default: 1GS/s -LSR: 0.5GS/s -INT: 2GS/s	-MEA: 1GB -MEB: 4GB	-DGT -AVG -CST -PKL -ZS1	-F03: 300MHz -F05: 500MHz	-LVR: 50mV, 100mV, 200mV, 500mV, 1V -SVR: 250mV, 500mV, 1V, 2.5V, 5V

Note: Only one channel is available when using 2GS/s



SA120E - 8-bit USB-C Thunderbolt ADC card

SA120E features

- 8 bit
- 2 channels
- Sampling rate: 2 GS/s Max
- Bandwidth: 500 MHz Max.
- Full scale ranges (FSR) :
 - ✓ 50 mV ~ 1 V (-LVR)
 - ✓ 250 mV ~ 5 V (-SVR)
- Input voltage offset: $\pm 0.6\text{FSR}$ Max.
- Impedance: 50 Ω , DC coupling
- Interface: USB-C Thunderbolt-3
- On-board memory: 4 GB Max.
- Supported firmware: DGT、AVG、CST、PKL, ZS1



SA120E selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA120E	8 bit	2	Default: 1GS/s -LSR: 0.5GS/s -INT: 2GS/s	-MEA: 1GB -MEB: 4GB	-DGT -AVG -CST -PKL -ZS1	-F03: 300MHz -F05: 500MHz	-LVR: 50mV, 100mV, 200mV, 500mV, 1V -SVR: 250mV, 500mV, 1V, 2.5V, 5V

Note: Only one channel is available when using 2GS/s



U5303A - 12-bit PCIe ADC card

U5303A features

- **Resolution:** 12 bit
- **No. of Channel:** 1 or 2
- **Sampling rate:** 4 GS/s Max.
- **Bandwidth:** 2 GHz Max.
- **Full scale ranges (FSR) :** 1 V 、 2 V
- **Input voltage offset:** ± 2 FSR Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** PCIe 2.0 x8
- **On-board memory:** 4 GB Max.
- **Firmware:**
 - ✓ DGT、AVG、TSR、CSR、INT、PKD
 - ✓ SS-OCT firmware: SS1



U5303A selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmw are	Bandwidth	FSR
U5303A	12 bit	1	-SR0: 0.5GS/s -SR1: 1GS/s -SR3: 2GS/s -INT: -SR0: 1GS/s -SR1: 2GS/s -SR3: 4GS/s	-M02: 256MB -M10: 1GB -M40: 4GB	-DGT -AVG -TSR -CSR -INT -PKD -SS1	-F05: -SR0: 400MHz -SR1/SR2/SR3: 650MHz -F10 (Not support SR0) : -when 1V FSR: 1.9GHz -when 2V FSR: 2.0GHz -When INT: 1.3GHz	1V, 2V
		2	-SR0: 0.5GS/s -SR1: 1GS/s -SR3: 2GS/s				

Note: CSR is not supported on SR3



SA3 - 12-bit PCIe ADC card

SA310P/322P/331P features

- **Resolution:** 12 bit
- **No. of Channel:** 1/2/3
- **Sampling rate:** 6.25 GS/s Max.
- **Bandwidth:** up to 2.4 GHz
- **Full scale ranges (FSR) :** 400 mV,800mV, 1.1V
- **Input voltage offset:** ± 0.6 FSR Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** PCIe 3.0 x8
- **On-board memory:** 16 GB Max.
- **Firmware:**
 - ✓ DGT、AVG、CST、ZS1、PKL
 - ✓ SS-OCT firmware: SS6, SS7



SA310P/322P/331P selection guide

Part	Resolution	N o. of channel	Sampling rate	On-board memory	Firmwa re	Bandwidth	FSR
SA310P	12bit	1	6.25GS/s	-MEA: 4GB -MEB: 8GB -MEC: 16GB	-AVG -CST -ZS1 -PKL	2.4GHz	1.1 V
SA322P	12bit	2	3.125GS/s	-MEA: 4GB -MEB: 8GB -MEC: 16GB	-AVG -CST -ZS1 -PKL -SS6	1.2GHz CH1 2.4GHz CH2	400mV CH1 1.1V CH2
SA331P	12bit	3	1.5625 GS/s on ch1 1.5625 GS/s on ch2 3.125 GS/s on ch3	-MEA: 4GB -MEB: 8GB -MEC: 16GB	-AVG -CST -ZS1 -PKL -SS6	1.2GHz CH1 1.2GHz CH2 2.4GHz CH3	800mV CH1 800mV CH2 1.1V CH3



SA217P - 14-bit PCIe ADC card

SA217P main features

- **Resolution:** 14 bit
- **No. of channel:** 1
- **Sampling rate:** 2 GS/s Max.
- **Bandwidth:** 1.2 GHz
- **Full scale ranges (FSR) :** 500 mV 、 2.5V
- **Input voltage offset:** ± 0.5 FSR Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** PCIe 3.0 x8
- **On-board memory:** 8 GB Max.
- **Supported firmware options:**
 - ✓ DGT、AVG、CST、ZS1



SA217P selection reference guide

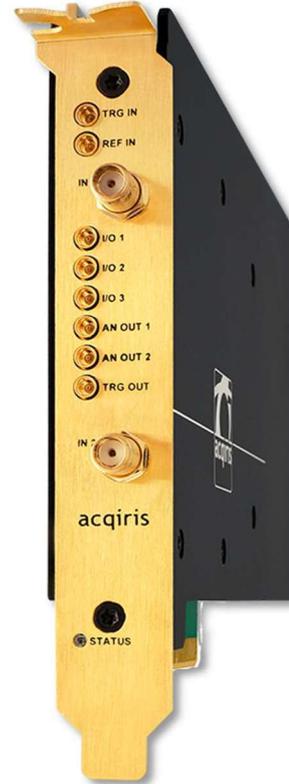
Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA217P	14 bit	1	Default: 2GS/s	-MEA: 4GB -MEB: 8GB	-DGT -AVG -CST -ZS1	1.2GHz	500mV, 2.5V



SA220P - 14-bit PCIe ADC card

SA220P main features

- **Resolution:** 14 bit
- **No. of channel:** 2
- **Sampling rate:** 2 GS/s Max.
- **Bandwidth:** 1.2 GHz
- **Full scale ranges (FSR) :** 500 mV 、 2.5V
- **Input voltage offset:** ± 0.5 FSR Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** PCIe 3.0 x8
- **On-board memory:** 8 GB Max.
- **Supported firmware option:**
 - ✓ DGT、AVG、CST、ZS1
 - ✓ SS-OCT firmware: SS4, SS5



SA220P selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA220P	14 bit	2	Default: 2GS/s -LSR: 1GS/s	-MEA: 4GB -MEB: 8GB	-DGT -AVG -CST -ZS1 -SS4 -SS5	1.2GHz	500mV, 2.5V



SA220E - 14-bit USB-C Thunderbolt ADC card

SA220E main features

- **Resolution:** 14 bit
- **No. of channel:** 1 or 2
- **Sampling rate:** 2 GS/s Max.
- **Bandwidth:** 1.2 GHz
- **Full scale ranges (FSR) :** 500 mV 、 2.5V
- **Input voltage offset:** $\pm 0.5\text{FSR}$ Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** USB-C Thunderbolt-3
- **On-board memory:** 8 GB Max.
- **Supported firmware option:**
 - ✓ DGT、AVG、CST、ZS1
 - ✓ SS-OCT firmware: SS4, SS5



SA220E selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA220E	14bit	1	Default: 2GS/s -LSR: 1GS/s	-MEA: 4GB -MEB: 8GB	-DGT -AVG -CST -ZS1 -SS4 -SS5	1.2GHz	500mV, 2.5V
		2					



SA230P - 14-bit PCIe ADC card

SA230P main features

- **Resolution:** 14 bit
- **No. of channel:** 1
- **Sampling rate:** 4 GS/s Max.
- **Bandwidth:** 2 GHz
- **Full scale ranges (FSR) :**
 - ✓ 500 mV、1V (-LVR)
 - ✓ 500 mV、2.5V (Standard)
- **Input voltage offset:** $\pm 0.5\text{FSR}$ Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** PCIe 3.0 x8
- **On-board memory:** 8 GB Max.
- **Supported firmware options:** DGT、AVG、CST、ZS1、PKL



SA230P selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA230P	14 bit	1	4GS/s	-MEA: 4GB -MEB: 8GB	-DGT -AVG -CST -ZS1 -PKL	2GHz	-LVR: 500mV, 1V Standard: 500mV, 2.5V



SA240P - 14-bit PCIe ADC card

SA240P main features

- **Resolution:** 14 bit
- **No. of channel:** 2
- **Sampling rate:** 4 GS/s Max.
- **Bandwidth:** 2 GHz
- **Full scale ranges (FSR) :** 500mV、1V
- **Input voltage offset:** $\pm 0.5\text{FSR}$ Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** PCIe 3.0 x8
- **On-board memory:** 8 GB Max.
- **Supported firmware:** DGT、AVG、CST



SA240P selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA240P	14 bit	2	4GS/s	-MEA: 4GB -MEB: 8GB	-DGT -AVG -CST	2GHz	500mV, 1V



SA248P - 14-bit PCIe ADC card

SA248P main features

- **Resolution:** 14 bit
- **No. of channel:** 2
- **Sampling rate:** 8GS/s Max.
- **Bandwidth:** 2.5 GHz
- **Full scale ranges (FSR) :** 1V
- **Input voltage offset:** $\pm 0.5\text{FSR}$ Max.
- **Impedance:** 50 Ω , DC coupling
- **Interface:** PCIe 3.0 x8
- **On-board memory:** 8 GB Max.
- **Supported firmware:** DGT、AVG、CST、ZS1、PKL



SA248P selection reference guide

Part	Resolution	No. of channel	Sampling rate	On-board memory	Firmware	Bandwidth	FSR
SA248P	14 bit	1	8GS/s	-MEA: 4GB -MEB: 8GB	-DGT -AVG -CST -ZS1 -PKL	2.5GHz	1V



Acqiris SS-OCT Solution

Acqiris SS-OCT solution main features

- **Sampling rate:** 4 GS/s Max.
- **A-scan frequency:** 50kHz/100kHz/200kHz/400kHz/800kHz/1MHz/2MHz
- **A-scan point:** 8k pts Max.
- **FFT point:** 8k pts Max.
- **Real-time OCT processing**
- **Multiple data output options:** raw data、 Remapped data or FFT data
- **OCT GUI**
- **Remapping in K-space:** Minimizing artifacts & simplifying design
- **Support different light sources**

Acqiris SS-OCT solution options

Config	Product	A-scan rate	OCT signal sampling rate	A-scan size (samples)	On-board Processing	On-board FFT size (pts)
SS0	SA120P SA120E	100, 1000 kHz	1 GS/S	1 to 8 K	NO	NA
SS4	SA220P SA220E	100, 200 kHz	1 or 2 GS/s	1 to 8 K	YES	1K, 2K,4K or 8K
SS5	SA220P SA220E	200-1 MHz	2 GS/s	1 to 7 K	YES	2K - 4K - 8K
SS6	SA240P	100-2 MHz	4 GS/s	1 to 64 K	YES	NA
SS6	SA3	100-2 MHz	1x3.125 GS/s 2x1.5675 GS/s	1 to 64 K	YES	TBC