FAST-SCA

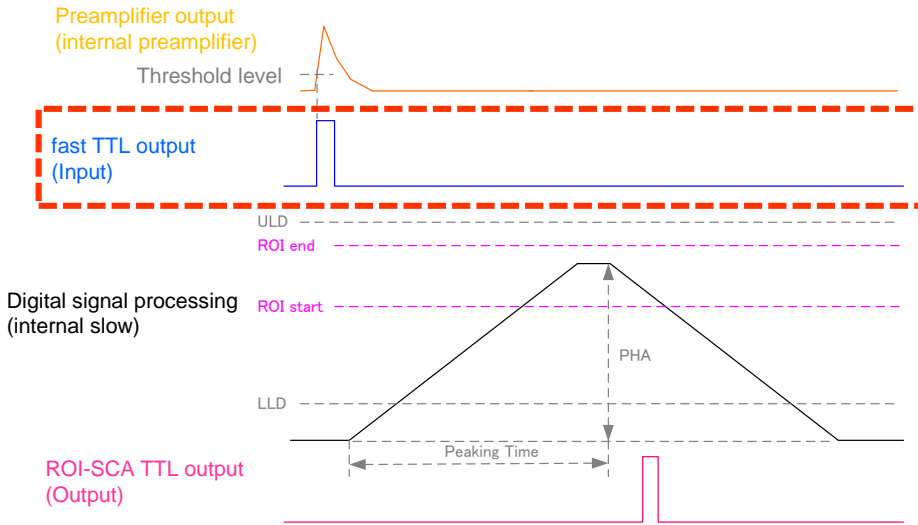## Extended functions for XAFS measurement using APN (U) 504 series

Features

20180706

The number of output channels of ROI - SCA is expanded to 4, and TTL (pulse width 50 ns) can be output even at FAST timing (setting example 1). Also, you can assign ROI - SCA functions to the expanded 4 channels (setting example 2).

	type of AUX signal
AUX1	ROI1-SCA
AUX2	ROI2-SCA
AUX3	ROI3-SCA
AUX4	ROI4-SCA
AUX5	fast-CH1
AUX6	fast-CH2
AUX7	fast-CH3
AUX8	fast-CH4

Setting example1

	type of AUX signal
AUX1	ROI1-SCA
AUX2	ROI2-SCA
AUX3	ROI3-SCA
AUX4	ROI4-SCA
AUX5	ROI5-SCA
AUX6	ROI6-SCA
AUX7	ROI7-SCA
AUX8	ROI8-SCA

Setting example2

Expand count upper limit

Extend the count number of conventional quick scan from 16 bit to 32 bit, and support step scan

Features

We have expanded the upper limit of the number of quick scan counts (high-speed histogram acquisition function) supported by the APN (U) 504 series. It is possible to correspond to step scan which can be measured for a long time. Quick scan data can be expanded by adding input counts.

Conventional Quick scan data structure (1 event: 32768byte)

Event#1 | CH1 4096ch 16bit | CH2 4096ch 16bit | CH3 4096ch 16bit | CH4 4096ch 16bit
Event#2 | CH1 4096ch 16bit | CH2 4096ch 16bit | CH3 4096ch 16bit | CH4 4096ch 16bit

Extended histogram depth from 16 to 32-bit (1 event: 65536 byte)

Event#1 | CH1 4096ch 32bit | CH2 4096ch 32bit | CH3 4096ch 32bit | CH4 4096ch 32bit
Event#2 | CH1 4096ch 32bit | CH2 4096ch 32bit | CH3 4096ch 32bit | CH4 4096ch 32bit

Extended by adding input count data (1 event: 65552 byte)

Event#1 | CH1 4096ch 32bit | CH2 4096ch 32bit | CH3 4096ch 32bit | CH4 4096ch 32bit | CH1 Input 32bit | CH2 Input 32bit | CH3 Input 32bit | CH4 Input 32bit
Event#1 | CH1 4096ch 32bit | CH2 4096ch 32bit | CH3 4096ch 32bit | CH4 4096ch 32bit | CH1 Input 32bit | CH2 Input 32bit | CH3 Input 32bit | CH4 Input 32bit

*Images is for illustration purpose.
*Please note that contents may change without prior notice.

Website