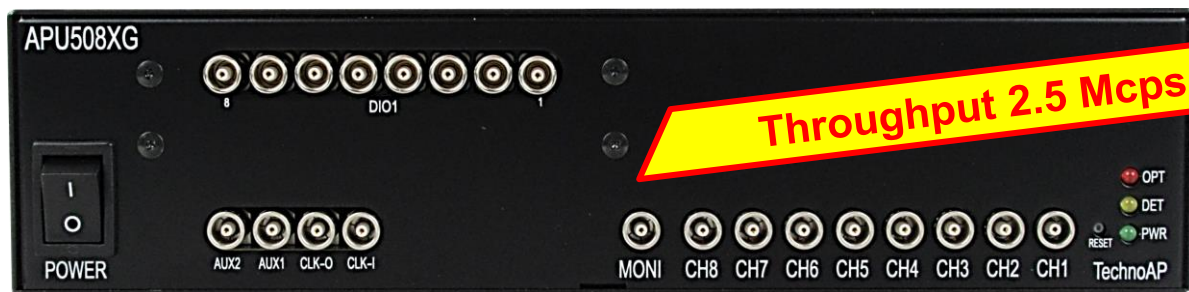


Taking advantage of the high data transfer rate due to the 10 Gbps Ethernet, it is possible to measure at ultra-high speeds such as less than 1ms for quick scan measurement where histograms can be transferred by external triggering.

In addition, the circuit configuration is such that ultra-high counts can be measured even among X-ray spectral scans, achieving an output rate of 2.5Mcps.



Main specifications

Analog input	8 channel max., LEMO connector Input impedance 1 kΩ
ADC	Input range ±2 V Sampling 100MHz, resolution 16-bit
Analog Coarse Gain	x1, x5, x10, x20
Measurement mode	1. Histogram 2. Quick-Scan (High-speed histogram)
FAST-SCA function *Option	LVTTTL logic signal output from external output terminal at fast timing and peak detection between ROIs.
Communication I/F	TCP/IP, 10GBASE-SR for data transfer UDP for command transceiver
Power supply	AC240V
Dimensions	210(W) x 52(H) x 250(D) mm
Weight	1700g

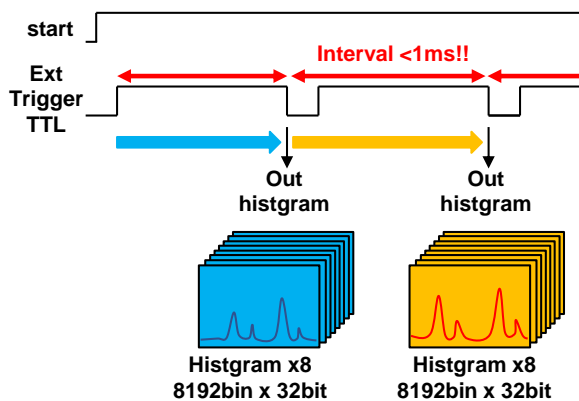
■ Command manual for external PC control included.

```

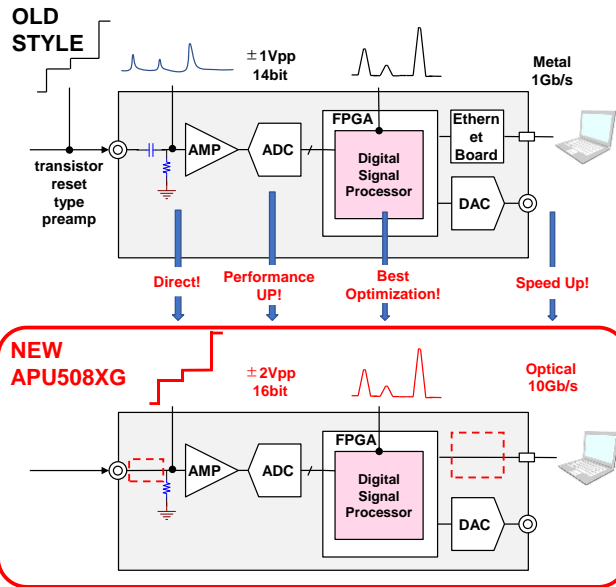
C:\Projects\Yasu101_vc\Debug>APU101_sample.exe
start measurement!!!
time(msec): 0/ 3000. input rate(cps): 0 throughput rate(cps): 0
time(msec): 201/ 3000. input rate(cps): 0 throughput rate(cps): 0
time(msec): 402/ 3000. input rate(cps): 0 throughput rate(cps): 0
time(msec): 603/ 3000. input rate(cps): 0 throughput rate(cps): 0
time(msec): 804/ 3000. input rate(cps): 0 throughput rate(cps): 0
time(msec): 1004/ 3000. input rate(cps): 0 throughput rate(cps): 0
time(msec): 1205/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 1406/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 1607/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 1808/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 2009/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 2210/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 2411/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 2612/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 2812/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
time(msec): 3000/ 3000. input rate(cps): 1000 throughput rate(cps): 1000
finish measurement...
measurement completed!!!
C:\Projects\Yasu101_vc\Debug>
    
```

Sample program included
*LabVIEW, python etc.

High-speed histogram transfer mode



High digitization



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

