EVENT TIMING MODULE(GPS)

- GPS READY
- 1SEC TRIG.
- EVENT BUFF. OVERFLOW

EVENT TRIG.

INHIBIT

EXTERNAL CLOCK

CLEAR   INTERNAL

1SEC TRIG. OUT

GPS SELECT MENTENANCE (TTL)

OPERATE

EXTERNAL DISPLAY

EXT. TRIG.

Kaizu 3051A

≪ABSTRACT≫

◆This module is used to measure the arrival time of cosmic rays exactly to provide an observation system.

◆This module gets UTC time information and 1sec panel synchronized UTC from GPS satellite (NAVI Star). For this reason,it counts the exact time.
When there is EVENT TRIG input, it stores its time to the internal memory.
The internal memory is prepared 256words and its cycle time is about 0.5us max,
It can observe even though cosmic ray input continuously..

◆The observation time is maximum 24 hours and the resolution is 1us.
It can know the event generating by the CAMAC LAM.
The memory data is 24bitx2 words,it can read out by F0 function.
The read out can be done continuously,it don't need memory adress management.

◆Accuracy（internal OSC）: normal temperature（$25\pm3℃$）1×10^{-6}
$0\sim50℃$　　　　　　　5×10^{-6}
Can input high-density clock(NIM level) from outside.

◆The counter error less than 1sec don't continue because modified by synchronized pulse from GPS satellite. Even when the radio wave from GPS satellite is interrupted,
It continues to count the time by internal oscillator. It correct a time automatically when receive the radio wave from satellite again.

◆Packaging : CANAC standard double-width module.

◆Accessory : GPS antenna cable

◆Consumption current :　－6V Approx.0．1A
　　　　　　　　　　　　＋6V Approx.1．4A

◆Option
◇High dencity clock module of NIM standard system
◇Memory size　expand to maximum 8K（256 step）
◇Time display unit（NIM、rack mounting type）

※ GPS receiver with antenna cable : We will provide you with a official quotation.