財 物 採 購 規 範 書

一、名稱：NVIDIA Drive AGX Xavier 開發板/2 套

案號：Q520002526

二、規格/功能需求：：

Volta GPU (512-core, Maximum Operating Frequency: 1.37GHz)

ARMv8.2 (64-bit) heterogeneous multi-processing (HMP) CPU architecture

NVIDIA Carmel (Dual-Core) Processor: L1 Cache: 128KB

16GB 256-bit wide LPDDR4x DRAM

32GB eMMC 5.1

說明:

2x Xavier SoCs with integrated Hardware Engines

8-core “Carmel” CPUs based on ARM v8 ISA

Deep Learning Accelerator (DLA): 5 TOPS (FP16) | 10 TOPS (INT8)

Volta-class GPU: 20 TOPS (INT8) | 1.3 TFLOPS (FP32)

Programmable Vision Accelerator (PVA): 1.6 TOPS

Stereo and Optical Flow Engine (SOFE): 6 TOPS

Image Signal Processor (ISP): 1.5 Giga Pixels/s

Video Encoder: 1.2 GPix/s

Video Decoder: 1.8 GPix/s

DRIVE AGX System I/O

Camera: >90 Gb/s over 16x GMSL(R) ports

Lidar/Radar: ~50 Gb/s over Ethernet

Vehicle IO: 16 CAN interfaces

DRIVE AGX Memory Bandwidth

Xavier: >250 GB/s

Discrete GPU: > 750 GB/s

Overall: >1 TB/s

三、驗收標準：驗收時依據所列規格及功能驗收。