VPS-3100

Intel® N3160 Processor, 2-port GigE Vision Platform with Lighting Control



Features

- Intel[®] Celeron[®] Quad Core Processor 1.6 GHz
- Compact form factor, fanless vision system
- Built-in PWM lighting control
- Trigger-over-Ethernet support
- GigE Vision offload Engine (GoE)
- GenICam compliant
- IP40 rating

Introduction

Advantech's VPS-3100 is a rugged and compact embedded vision system equipped with an Intel[®] Celeron[®] N3160 Quad Core processor. The GoE feature offloads GigE Vision protocols to a dedicated coprocessor for image reconstruction. The system has two independent Gigabit Ethernet ports for multiple GigE Vision device connections with data transfer rates up to 2.0 Gb/s, offering greatly enhanced computing power and connectivity with a small footprint.

The VPS-3100 supports Power over Ethernet (PoE), which combines the power and signal supply into a single cable and thus facilitates multicamera simultaneous acquisition. With the VPS-3100, the number of cables is significantly reduced, system installation is simplified, and the total cost of ownership is notably lowered. The VPS-3100's powerful and flexible DI/O configuration and compact size make it the perfect vision system for machine vision applications.

Intel® Celeron® N3160 Quad Core

2 x isolated DI. 4 x isolated DO

Wet contact (0-30 V) and dry contact

1 x VGA, 1 x DP++ (HDMI support)

1 x RS-232/422/485 (BIOS setting)

~95% @ 40 °C (noncondensing)

137 x 58 x 118 mm (5.39" x 2.28" x 4.65")

Source current type (11-35 V_{DC}) 0.7 A per

0-30 V, optically isolated

0-500 mA per channel

1.6GHz

4-GB DDR3L

1-Kbit EEPROM

15.4 W per port

2-port GigE

IEEE 802.3af

channel

2-channel

Max. 100 KHz

4 x USB 3.0

1 x RS-232

Input 24 V

1100 g (2.425lbs)

Windows 7/10, -32/64 bit

0-50 °C

10/100/1000 Mbps

1 KHz

128

128-GB mSATA SSD

Specifications

•	Processor	
	-	

- Frequency
- Memory
- StorageSecurity
- Security
- Camera InterfaceCamera Power Output
- PoE Standard
- Digital I/O
- Digital I/O range
- DI Support
- DO Support
- Digital I/O Max. Frequency
- Strobe Control
- Strobe Control, Output Current
- Dimming Resolution
- Strobe Out Frequency
- EthernetDisplay
- USB
- Serial Ports
- Seliai Fulis
- Power Requirement
- Operating Temperature
- Operating Humidity
- Dimensions (W x H x D)
- Weight
- Operating System

Ordering Information

- VPS-3100I-10A VPS-3100 system
- Storage
- 96FD-M064-PLG2 mSATA, A19nm, 64GB, SATA 6GB/s, 0 ~ 70 °C
 96FD-M128-PLG2 mSATA, A19nm, 128GB, SATA 6GB/s, 0 ~ 70 °C

Quartz Industrial Camera, Monochrome

QCAM-GM3800-007DE	3856 x 2764	7 fps
QCAM-GM3800-010CE	3856 x 2764	10 fps
QCAM-GM3000-018DE	3072 x 2048	18 fps
QCAM-GM2500-020DE	2592 x 2048	20 fps
QCAM-GM2500-014DE	2592 x 1944	14 fps
QCAM-GM1920-040CE	1920 x 1200	42 fps
QCAM-GM1600-060DE	1600 x 1200	60 fps
QCAM-GM1300-060DE	1280 x 1024	60 fps
QCAM-GM1300-030CE	1296 x 966	30 fps
 QCAM-GM1280-075DE 	1280 x 1024	75 fps
QCAM-GM0640-120DE	640 x 480	120 fps
Quartz Industrial Came	ra Color	
Qualitz Industrial Game	1a, Guiui	
QCAM-GC4600-007CE		
	4608 x 3288	7 fps
• QCAM-GC3000-018DE	4608 x 3288 3072 x 2048	7 fps 18 fps
• QCAM-GC3000-018DE	3072 x 2048	18 fps
QCAM-GC3000-018DEQCAM-GC2500-014CE	3072 x 2048 2592 x 1944	18 fps 14 fps
 QCAM-GC3000-018DE QCAM-GC2500-014CE QCAM-GC1300-060CE 	3072 x 2048 2592 x 1944 1280 x 1024	18 fps 14 fps 60 fps

EZB-EEV-10ID	EzBuilder Identification Software
EZB-EEV-10AL	EzBuilder Alignment Software
EZB-EEV-10IN	EzBuilder Inspection Software
EZB-EEV-10FU	EzBuilder Full Functions Software