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)
- GenlCam 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.

Specifications

Processor	Intel® Celeron® N3160 Quad Core
Frequency	1.6GHz
Memory	4-GB DDR3L
Storage	128-GB mSATA SSD
Security	1-Kbit EEPROM
 Camera Interface 	2-port GigE
 Camera Power Output 	15.4 W per port
 PoE Standard 	IEEE 802.3af
Digital I/O	2 x isolated DI, 4 x isolated DO
Digital I/O range	0-30 V, optically isolated
 DI Support 	Wet contact (0-30 V) and dry contact

- Digital I/O Max. Frequency

Strobe Control

DO Support

Strobe Control, Output Current

Dimming Resolution

Strobe Out Frequency

Ethernet

Display USB

Serial Ports

Power Requirement

- Operating Temperature

- Operating Humidity

- Dimensions (W x H x D)

Weight

Operating System

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

1 KHz 2-channel

0-500 mA per channel

128

Max. 100 KHz 10/100/1000 Mbps 1 x VGA, 1 x DP++ 4 x USB 3.0

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

1 x RS-232 Input 24 V

0-50 °C ~95% @ 40 °C (noncondensing)

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

1100 g (2.425lbs) Windows 7/10, -32/64 bit

Ordering Information

VPS-3100I-10A

Quartz Industrial Camera, Monochrome

QCAM-GM3800-007DE 3856 x 2764 **QCAM-GM3800-010CE** 3856 x 2764 10 fps QCAM-GM3000-018DE 3072 x 2048 18 fps **QCAM-GM2500-020DE** 2592 x 2048 **QCAM-GM2500-014DE** 2592 x 1944 **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

Quartz Industrial Camera, Color

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•	QCAM-GC4600-007CE	4608 x 3288	7 fps
•	QCAM-GC3000-018DE	3072 x 2048	18 fps
•	QCAM-GC2500-014CE	2592 x 1944	14 fps
•	QCAM-GC1300-060CE	1280 x 1024	60 fps
	OCAM-GC0640-120CE	640 x 480	120 fps

Vision Software

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