# **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 DO Support

- Digital I/O Max. Frequency

Strobe Control

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<sub>DC</sub>) 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++ (HDMI support)

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 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**

<ul><li>QCAM-GM3800-007DE</li></ul>	3856 x 2764	7 fps
<ul><li>QCAM-GM3800-010CE</li></ul>	3856 x 2764	10 fps
<ul><li>QCAM-GM3000-018DE</li></ul>	3072 x 2048	18 fps
<ul><li>QCAM-GM2500-020DE</li></ul>	2592 x 2048	20 fps
<ul><li>QCAM-GM2500-014DE</li></ul>	2592 x 1944	14 fps
<ul><li>QCAM-GM1920-040CE</li></ul>	1920 x 1200	42 fps
• QCAM-GM1600-060DE	1600 x 1200	60 fps
<ul><li>QCAM-GM1300-060DE</li></ul>	1280 x 1024	60 fps
<ul><li>QCAM-GM1300-030CE</li></ul>	1296 x 966	30 fps
<ul><li>QCAM-GM1280-075DE</li></ul>	1280 x 1024	75 fps
<ul><li>QCAM-GM0640-120DE</li></ul>	640 x 480	120 fps

#### **Ouartz Industrial Camera. Color**

• 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-GC0640-120CF	640 x 480	120 fn

#### Vision Software

VISION CONTWAIC	
<ul><li>EZB-EEV-10ID</li></ul>	EzBuilder Identification Software
<ul><li>EZB-EEV-10AL</li></ul>	EzBuilder Alignment Software
<ul><li>EZB-EEV-10IN</li></ul>	EzBuilder Inspection Software
■ F7R-FFV-10FII	EzBuilder Full Functions Software