VISICS

EASY 160

Embedded Application System

- High performance integrated computer, network switch, and PLC system for high speed industrial process control and image processing

- Server-class processing throughput

- Compact, rugged, and complete system

- ExoTherm Heat Rejection Architecture reduces internal temperatures by 10-20°c for reliable operation in high ambient temperature environments

- Isolated from environmental dust

- Dedicated DMA engine for data acquisition, network coordination, and display

- Optimized for real-time control, data transfer, and analysis

- Integrated GigE Ethernet switch with I.E.E.E 802.af/at intelligent power over ethernet for networked peripherals

Breakthrough Innovation for Machine Vision and High Speed Machine Control

Summary Specifications

Processor options	Intel® Q9300 Quad-Core, T9400 Dual-Core
Processor speed	2.53 - 2.66 GHz
Drive capacity	120 - 480 GB
Display capability	VGA
USB ports	4 or 8
Integrated PLC	1 uS Scan Time, 8 - 16 channels, Bidirectional, Opto-Isolated, I/O
Operating systems	XP, XPE, Win 7, Win 7 Embedded, Win 8.1, Linux
Cooling provisions	Passive radiation or external forced air

An EASY is an extremely rugged compact industrial computer, network switch, and PLC that is able to simultaneously...

track products in real time, synchronize image acquisitions from large numbers of asynchronous image sources, and display images while utilizing a powerful DMA engine to reserve the processor for data analysis. EASYs feature eight USB 2.0 ports that can be used for cameras, user interface devices (mouse, keyboard, etc.), disk drives and other USB devices. There are six GigE PoE Ethernet ports that can provide power to attached devices according to the IEEE 802.3af specification. This allows for camera and peripheral operation over a single Cat 5e or Cat 6 cable – simultaneously providing power, image data transfer, triggering, strobe control, and event notification.

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Performance	EASY 80	EASY 160
Processor	Core 2 Dual-Core T9400	Core 2 Quad-Core Q9300
Processor Speed	2.53 GHz	2.53 GHz
Processor Cores	2	4
Chipset	GM45	GM45
IO Controller	ICH9-M	ICH9-M
Front-side Bus Speed	1333 MHz	1333 Mhz
Memory Type	DDR3	DDR3
Memory Size	0.5 to 8 GB	0.5 to 8 GB
Disk		
Solid State Disk Drive	64 - 480 GB	64 - 480 GB
Recommended OS	Win XP, 7, 8.1 LinuX	Win XP, 7, 8.1 Linux
Power		
Supply Voltage	20-28 VDC	20-28 VDC
Supply Current	3.5 A at 24V	4.5A at 24V
Physical Dimensions		
Length	156 mm	156 mm
Width	106 mm	106 mm
Height	88 mm	88 mm
Weight	1.4 kg	1.4 kg
Environmental Specifications		
Acceleration *(Compact Flash Only)*	15 G	15 G
Shock *(Compact Flash Only)*	50 G	50 G
Thermal operating range	-30 to 50 °C	-30 to 50 °C
Thermal storage range	-60 to 85 °C	-60 to 85 °C
Humidity	0 - 95% NC	0 - 95% NC
Interfaces		
USB		
USB *(1.0/2.0)* *(Camera & General I/O Capable)*	4	4
USB (2.0) Camera-only *(with optional internal riser)*	4	4
Ethernet Ports *(with IEEE 802.af Intelligent PoE)*		
Host *(10/100/1000 BaseT)*	1 or 2	1 or 2
Crosspoint Switched *(1000 Base T)*	4 or 5	4 or 5
Internal GigE Port *(if optional DMA Controller)*	2 or 3	2 or 3
BiDirectional, Opto-Isolated Digital I/O Channels	0, 8, or 16	0, 8, or 16
10 MHz Input Response		
50 KHz Output Response		
10 MHz Output Response *(with High Speed Output Option)*		
Integrated Programmable Logic Controller, 1uS Scan	0 or 1	0 or 1
Display	VGA	VGA