NEW
WStrider-200A

IP67 Extend-Temperature Fanless Embedded Controller

- Ultra low voltage Intel® Atom™ Z510PT solution
- IP67 compliant rugged design
- Fanless operation under -30°C ~70°C extreme temperature
- Built-in 802.11b/g/n high speed wireless communication
- 9~28VDC power input
- Two channels analog video input
- Built-in 4G industrial grade high speed CompactFlash
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

One Key Recovery IEI symantec | Fanless | Wireless 802.11 b/g/n | IP 67 | +70°C -30°C

WStrider-200A is a rugged embedded controller designed to operate in harsh usage environments and conditions. Its Aluminum die-casting enclosure and M12 watertight connector not only provides IP67 grade protection against dust and water, it also can withstand high impact by vandal usage. Empowered by Intel® Atom™ Z510PT with US15WPT industrial grade processor and chipset, WStrider-200A is able to operate under extreme temperature from -30°C to 70 °C. The built-in 802.11b/g/n module with IP67 complicant enternal antenna provides reliable high speed wirless communication. Furthermore WStrider-200A is capable of taking video input or image from analog camera by its built-in Techwell TW6805, providing upto two channels video capturing. For severe environment with unstable power source, WStrider-200A can take power input from 9VDC to 28VDC.

Rugged IP67 Protection

The IP Code (International Protection Rating) is defined in international standard IEC 60529 and it classifies the degrees of protection provided against the intrusion of solid objects, dust, accidental contact, and water in electrical enclosures. WStrider-200A is a IP67 compliant controller and this dust-tight, water ingress resistant design has been verified severely throughout the design process in IEI's in-house UL50 certified waterproof laboratory. Air leak examination will also be applied during production to ensure every WStrider-200A is ready to operate reliably in harsh environment.
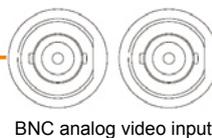
Air Leak Examination

Immersion test

[IP67] Dust-tight

Level	Effective Against
6	No ingress of dust; complete protection against contact

[IP67] 30 minutes immersion under one meter water

Level	Effective Against
7	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1m of submersion)

Analog Video Input

abg WiFi n

IP67 external wireless antenna

BNC analog video input | Water proof BNC cable | IP67 analog camera

WStrider-200A offers two channels analog video input via BNC interface with IP67 protection. By built-in Techwell TW6805 video engine, WStrider-200A can support upto D1 resolution capturing. For mining or diaster rescuring application, live video image is necessary for control and decision making, WStrider-200A can encode video and picture data then instantly transfer it to remote monitoring center via GbE or 802.11b/g/n high speed wireless communication.

Wide Range DC Input

For severe environment with unstable power source, WStrider-200A can takes power input from 9VDC to 28VDC. WStrider-200A uses 5-pin M12 connector as power input interface, which has different pin numbers to avoid power mistakenly connected to other IO for safety concern. You may apply DC power source directly to WStrider-200A via M12 5pin to terminal block cable in packing, or with optional IP67 60W power adaptor, apply AC source from the field.
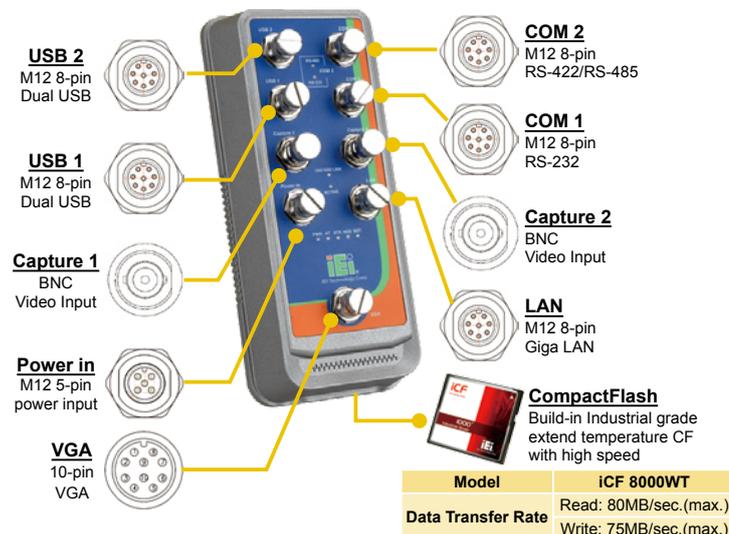
terminal block
DC in cable

IP67 60W water-proof
Power Adapter

IO Interface & Cabling

WStrider-200A uses IP67 compliant M12 and BNC connectors with watertight cap in pair for each connector. With watertight-to-PC interface cables, WStrider-200A can be easily connected to PC peripheral devices, operating just like common PC.

USB 2
M12 8-pin
Dual USB

USB 1
M12 8-pin
Dual USB

Capture 1
BNC
Video Input

Power in
M12 5-pin
power input

VGA
10-pin
VGA

COM 2
M12 8-pin
RS-422/RS-485

COM 1
M12 8-pin
RS-232

Capture 2
BNC
Video Input

LAN
M12 8-pin
Giga LAN

CompactFlash
Build-in Industrial grade
extend temperature CF
with high speed

Model	iCF 8000WT
Data Transfer Rate	Read: 80MB/sec.(max.)
	Write: 75MB/sec.(max.)

IP 67 Cables

BNC cable

COM cable

RJ45 LAN cable

USB cable

Water-proof
Power Adapter

VGA cable

DC in cable

IP67 protection cap

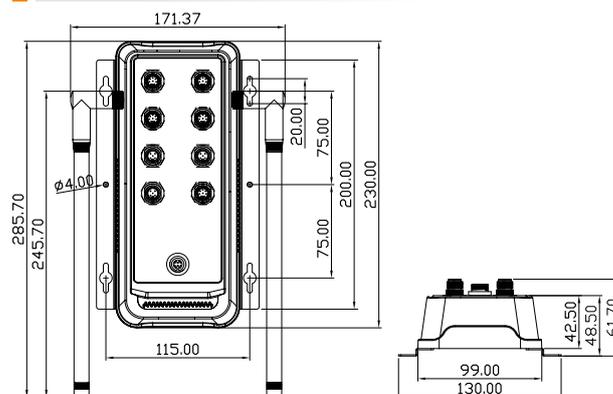## Optional Cables and Adapter

Item	Part Number
Water-proof Power Adapter (12V 60W)	63000-CLG6012IE-RS
Water-proof Power cable 14AWG (200 cm)	32002-001300-100-RS
Water-proof COM port cable (300 cm)	32005-000100-100-RS
Water-proof USB cable (300 cm)	32001-001000-100-RS
Water-proof LAN cable (300 cm)	32013-000200-100-RS
Water-proof BNC male cable (300 cm)	32014-000100-100-RS
Water-proof VGA cable (320 cm)	32003-000100-100-RS

Specifications

Processor	Intel® Atom™ 1.1GHz processor Z510PT with 400MHz FSB
Chipset	Intel® US15WPT
System Memory	1GB DDR2 SDRAM onboard
Ethernet	Intel® 82541PI GbE with M12 8pin connector
Wireless	Built in 802.11b/g/n for wireless model
Display	VGA signal with 10pin IP67 connector
USB	4 x USB 2.0, by two M12 8pin connector
Serial Port	1 x RS-232, with M12 8pin connector 1 x RS-422/485, with M12 8pin connector
Capture	2 x ch. By Techwell TW6805, with BNC connector
Storage	1 x CompactFlash Type II slot, 4GB CF pre-installed with XPE image
Power Input	9~28VDC in, with M12 5pin connector
Power Consumption	16W
Chassis Construction	Aluminum Alloy
Operating Temperature	-30°C ~ 70°C with air flow* (w/o wireless) -30°C ~ 50°C with air flow* (w/ wireless)
Operating shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis
Operating Vibration	MIL-STD-810F 514.5C-2
Weight (Net/Gross)	1.3kg / 2.9kg
Dimensions (DxWxH)	99mm(W) x 61.7mm(D) x 230 mm (H)
Mounting	wall mount VESA mount
EMC/Safety	CE, FCC class A, UL

* Ambient air speed pre IEC-68-2-2 standard

Dimensions (unit: mm)

171.37
285.70
245.70
Ø4.00
20.00
75.00
200.00
230.00
75.00
115.00
42.50
48.50
61.70
99.00
130.00

Packing List

1 x QIG	2 x wall mount bracket
1 x Driver CD	2 x IP67 wireless antenna*
1 x Screw set	(*for wireless model only)

Ordering Information

Part No.	Description
WSTRIDER-200A-R10/4G-XPE	IP 67 extend temperature fanless embedded system, US15WPT with Intel® Atom™ 1.1GHz Z510PT processor, 1GB DDR2 memory onboard, w/ 4GB CF card, built in Windows XP embedded OS, w/o power adaptor, -30°C ~ 70°C, RoHS
WSTRIDER-200AW-R10/4G-XPE	IP 67 extend temperature fanless embedded system, US15WPT with Intel® Atom™ 1.1GHz Z510PT processor, 1GB DDR2 memory onboard, 802.11b/g/n wireless, w/ 4GB CF card, built in Windows XP embedded OS, w/o power adaptor, -30°C ~ 50°C, RoHS
WSTRIDER-200A-R10/4G	IP 67 extend temperature fanless embedded system, US15WPT with Intel® Atom™ 1.1GHz Z510PT processor, 1GB DDR2 memory onboard, w/ 4GB CF card, w/o OS, w/o power adaptor, -30°C ~ 70°C, RoHS
WSTRIDER-200AW-R10/4G	IP 67 extend temperature fanless embedded system, US15WPT with Intel® Atom™ 1.1GHz Z510PT processor, 1GB DDR2 memory onboard, 802.11b/g/n wireless, w/ 4GB CF card, w/o OS, w/o power adaptor, -30°C ~ 50°C, RoHS
VK-WSTRIDER-200A-R10	VESA mount kit for WStrider-200, silver, RoHS

* For other CompactFlash capacity, please contact with IEI for customization.