Internet Security Platforms

FWA-700

FWA-660

FWA-3700

Selection Guide

Specifications \ Model Name		Tabletop Platforms				Rackmount Platforms
		FWA-700	FWA-60A	FWA-600	FWA-660	FWA-3700
Processor System	CPU	Intel Pentium M/ Celeron M	Intel Pentium III/ Celeron	Intel Celeron	Intel Celeron	Intel Pentium M/ Celeron M
	Max. Speed	2.0 GHz	1.26 GHz/566 MHz	566 MHz	566 MHz	2.0 GHz
	L2 Cache	2 MB/512 KB	256/128 KB	128 KB	128 KB	2 MB/512 KB
Memory	Technology	DDRII 533/400 SODIMM	PC-133 SODIMM SDRAM	PC-133 SODIMM SDRAM	PC-133 SODIMM SDRAM	DDRII 533/400 SODIMM
	Max. Capacity	2 GB	512 MB	512 MB	512 MB	2 GB
Ethernet	Interface	10/100/1000 Base-Tx	10/100Base-TX	10/100Base-TX	10/100Base-TX	10/100/1000 Base-Tx
	Controller	Marvel 8053 x 4	Intel 82559ER x 3	Intel 82559ER x 3	Intel 82559ER x 3 Intel 82562ET x 1	Marvel 8053 x 4
	Connector	RJ-45 x 4	RJ-45 x 3	RJ-45 x 3	RJ-45 x 4	RJ-45 x 4
Management	Console	RS-232 x 1	RS-232 x 1	RS-232 x 1	RS-232 x 1	RS-232 x 1
Miscellaneous	LCD	-	-	-	-	16 characters, 2 lines
	PCI	-	1	-	-	-
	PCI-X	-	-	-	-	-
	USB	2	-	-	-	2
Dimensions (W x H x D)	mm	250 x 42 x 170	254 x 49.1 x 177	250 x 39 x 177	250 x 39 x 177	426 x 44 x 280
	inches	9.8 x 1.65 x 6.7	9.8 x 1.93 x 6.9	9.8 x 1.5 x 6.9	9.8 x 1.5 x 6.9	16.7 x 1.7 x 11
Weight	kg	1.2	1.2	1.2	1.2	4.5
	lb	2.6	2.6	2.6	2.6	9.9
RoHS Compliance		RoHS	-	-	-	RoHS
Reference Page		11-22	11-24	11-26	11-28	11-6

FWA-4180

FWA-3140

FWA-6280 Series

Rackmount Platforms	Rackmount Platforms				
FWA-4180	FWA-3180	FWA-3140	FWA-3680	FWA-3620	FWA-6280A
Intel Pentium 4	Intel Pentium 4	Intel Pentium 4	Intel Pentium III/ Celeron	Intel Pentium III/ Celeron	Intel Xeon (with Nocona hyperthreading)
3.2 GHz	3.06 GHz	3.06 GHz	1.26/1.2 GHz	1.26/1.2 GHz	3.2 GHz
1 MB	512/256 KB	512/256 KB	256/128 KB	256/128 KB	1 MB
DDR-SDRAM 266/333/400	DDR-SDRAM 266/333/200	DDR-SDRAM 266/333/200	PC-133 SODIMM SDRAM	PC-133 SODIMM SDRAM	DDR II-400 ECC Registered
2 GB	2 GB	2 GB	512 MB	512 MB	12 GB
10/100/1000Base-TX	10/100/1000Base-TX	10/100/1000Base-TX	10/100Base-TX	10/100Base-TX	10/100/1000Base-TX
Intel 82541GI Intel 82547GI Intel 82546GB	Intel 82551QM Intel 82540EM	Intel 82551QM Intel 82540EM	Intel 82559ER x 3 Intel 82562ET x 1	Intel 82559ER x 3	Intel 82546 x 4
RJ-45 x 8	RJ-45 x 8	RJ-45 x 4	RJ-45 x 4	RJ-45 x 3	RJ-45 x 8
RS-232 x 1	RS-232 x 1	RS-232 x 1	RS-232 x 1	RS-232 x 1	RS-232 x 1
16 characters, 2 lines	16 characters, 2 lines	16 characters, 2 lines	-	-	16 characters, 2 lines
-	1	2	2	2	-
1	-	-	-	-	2
-	-	-	-	-	2
426 x 44 x 380	426 x 44 x 380	426 x 44 x 360	426 x 44 x 320	426 x 44 x 320	430 x 88 x 487.5
16.7 x 1.7 x 14.9	16.7 x 1.7 x 14.9	16.7 x 1.7 x 14.1	16.7 x 1.7 x 12.6	16.7 x 1.7 x 12.6	17 x 3.5 x 19.1
4.5	4.5	4.5	4.5	4.5	4.5
9.9	9.9	9.9	9.9	9.9	40
-	-	RoHS	-	-	RoHS
11-18	11-16	11-14	11-12	11-8	11-4

FWA-6280B

2U Rackmount Internet Security Platform with Dual Intel® Xeon® and Gigabit Express Modular Network I/O Card

Features

- Intel® Xeon® EM64T (Nocona), up to 3.6 GHz
- Dual channel DDR2 400 ECC registered, up to 12 GB
- Fourteen 10/100/1000 Mbps LAN ports
- Supports mini-GBIC, up to two interfaces
- PCI-X 64/133 slots 3.3 V, up to 2 slots
- Supports two removable 3.5" IDE/SATA HDDs
- One 10/100 Mbps managed LAN port

CE FCC UL

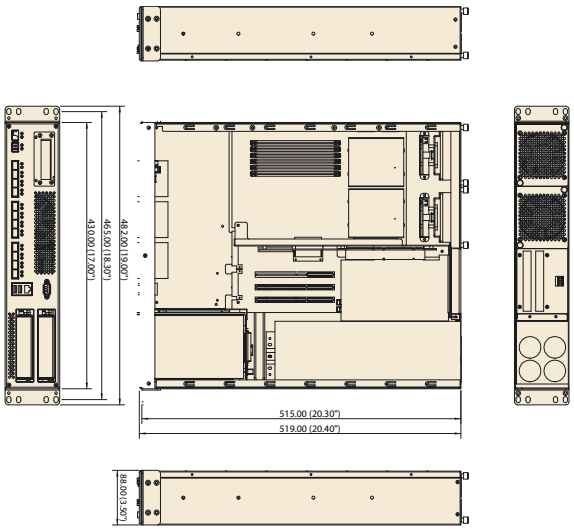
Introduction

Conceived as a powerful rackmount Internet security platform, the FWA-6280B was specifically designed for high performance IDS/IPS, firewall, VPN gateway and Unified Threat Management (UTM). Designed with the Intel Xeon processor, it provides high performance and meets the requirements of Internet security appliances. PCI Express technology improves the I/O bandwidth and system total bandwidth up to 32Gbps. The system supports two removable optional 3.5" IDE/SATA HDDs and Compact Flash for OS and Internet security applications. In addition, the FWA-6280A can support system memory up to 12 GB DDR2 memory. Both Compact Flash and memory can be accessed and replaced for software upgrades through an easily removable cover. The HDD can be inserted/removed easily from the front panel. Designed with the Plug-and-Serve concept in mind, the FWA-6280A offers eight 10/100/1000 Mbps LAN ports in the front panel. For easy access, the front panel has a 9-pin RS-232 serial port, a 10/100 managed LAN port, and an LCD Module for local system management, maintenance, and diagnostics. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Xeon EM64T with hyperthreading, single or dual processor	
	Max Speed	3.6 GHz	
	Chipset	Intel E7520 (Lindenhurst) + 6300ESB (Hance Rapids)	
	Front Side Bus	800 MHz	
	BIOS	Award 4 Mb Flash	
Memory	Technology	Dual channel DDR2-400 ECC registered	
	Capacity	Up to 12 GB with 6 slots, installed in pairs	
Bus	PCIe	1 PCIe x 8 connector for LAN expansion board	
	Onboard Expansion slots	2 PCI-X 64/66, supports half height cards without external access	
	Riser card	2 PCI-X 64/133 connectors, up to 2 PCI-X 64/100 connectors Supports full-height cards and external access, such as LAN and SCSI	
Ethernet	Managed LAN	1 Fast Ethernet for management	
	Gigabit Ethernet	14, Supports fiber interface x 2	
	LAN bypass	6 segements for 12 copper ports	
Storage	IDE/SATA	Supports 3.5" HDD x 2 on IDE0, or SATA HDD x 2	
	Compact Flash Socket	1 CF socket on IDE1	
Peripheral	USB	2 (USB 2.0)	
	Serial	1 (RS-232)	
	LCD Module	1	
Power	Watt	500W (1+1 redundant 500W/each)	
	Input	AC 90 ~ 260 V @ 47 ~63 Hz, full range	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	430 x 88 x 490 mm (16.9" x 3.46" x 19.3")	
	Weight	18 Kg (40 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	LAN	HDD Bay	Power
FWA-6280-BR	12 x 10/100/1000Base Tx with 2 x mini GBIC bracket	Hot-swappable SATA	Redundant 500 W
FWA-6280-BF	14 mini GBIC bracket	Hot-swappable SATA	Redundant 500 W

Accessories

Part Number	Description
9680001563	ATI VGA Card RADEON 7000 PCI 32MB

FWA-6280A

2U Rackmount Internet Security Platform with 8 Front LAN Ports and PCI Expansion Slot

Features

- Intel® Xeon® EM64T (Nocona), up to 3.2 GHz
- Dual channel DDR2 400 ECC registered, up to 12 GB
- Eight 10/100/1000 Mbps LAN ports
- Supports mini-GBIC, up to two interfaces
- PCI-X 64/133 slots 3.3 V, up to 2 slots
- Supports two removable 3.5" IDE/SATA HDDs
- One 10/100 Mbps managed LAN port

CE FCC

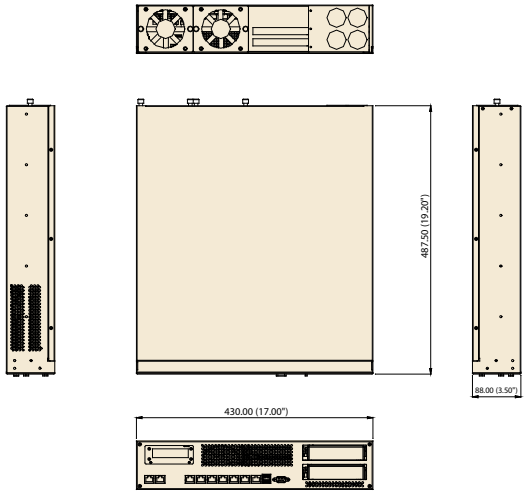
Introduction

Conceived as a powerful rackmount Internet security platform, the FWA-6280A was specifically designed for high performance IDS/IPS, firewall, VPN gateway and Unified Threat Management (UTM). Designed with the Intel Xeon processor, it provides high performance and meets the requirements of Internet security appliances. PCI Express technology improves the I/O bandwidth and system total bandwidth up to 32 Gb/s. The system supports two removable optional 3.5" IDE/SATA HDDs and Compact Flash for OS and Internet security applications. In addition, the FWA-6280A can support system memory up to 12 GB DDR2 memory. Both Compact Flash and memory can be accessed and replaced for software upgrades through an easily removable cover. The HDD can be inserted/removed easily from the front panel. Designed with the Plug-and-Serve concept in mind, the FWA-6280A offers eight 10/100/1000 Mbps LAN ports in the front panel. For easy access, the front panel has a 9-pin RS-232 serial port, a 10/100 managed LAN port, and an LCD Module for local system management, maintenance, and diagnostics. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Xeon EM64T with hyperthreading, single or dual processor	
	Max Speed	3.2 GHz	
	Chipset	Intel E7520 (Lindenhurst) + 6300ESB (Hance Rapids)	
	Front Side Bus	800 MHz	
	BIOS	Award 4 Mb Flash	
Memory	Technology	Dual channel DDRII 400 ECC registered	
	Capacity	Up to 12 GB with 6 slots, installed in pairs	
Bus	PCIe	1 PCIe x 8 connector for LAN expansion board	
	Onboard Expansion slots	2 PCI-X 64/66, supports half height cards without external access	
	Riser card	2 PCI-X 64/133 connectors, up to 2 PCI-X 64/100 connectors Supports full-height cards and external access, such as LAN and SCSI	
Ethernet	Managed LAN	1 Fast Ethernet for management	
	Gigabit Ethernet	8, supports fiber interface	
	LAN bypass	1 segment for all copper ports	
Storage	IDE/SATA	Supports 3.5" HDD x 2 on IDE0, or SATA HDD x 2	
	Compact Flash Socket	1 CF socket on IDE1	
Peripheral	USB	2 (USB 2.0)	
	Serial	1 (RS-232)	
	LCD Module	1	
Power	Watt	500 W or 400 W ATX (1+1 redundant 400 W/each)	
	Input	AC 90 ~ 260 V @ 47 ~63 Hz, full range	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	426 x 88 x 485 mm (16.8" x 3.46" x 19.1")	
	Weight	18 Kg (40 lb)	

Dimensions



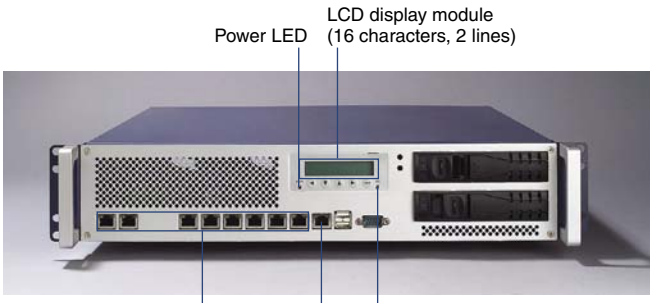
Unit: mm (inch)

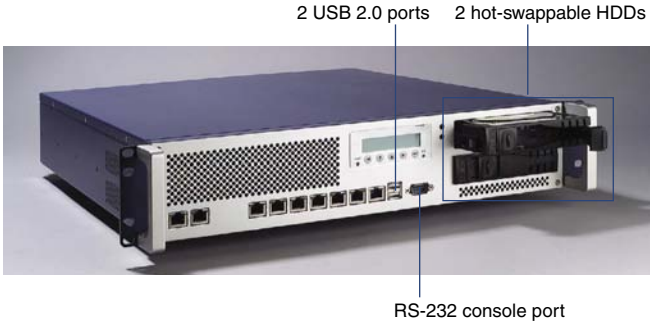
Ordering Information

Part Number	LAN	H.D.D. Bay	Power
FWA-6280A-1	8 x 10/100/1000Base-TX	Fixed IDE	Single 500 W
FWA-6280A-2	8 x 10/100/1000Base-TX	Hot-swappable SATA	Redundant 400 W
FWA-6280A-3	6 x 10/100/1000Base-TX 2 x mini-GBIC with Fiber module	Hot-swappable SATA	Redundant 400 W

Accessories

Part Number	Description
9692B62020	Riser card for two PCI-X 64/133 slots
1703080160	PS/2 Y cable MINI DIN 16CM





FWA-3700

1U Rackmount Internet Security Platform

CE FCC

Features

- Supports Intel® Pentium® M or Celeron® M Processor
- Dual channel DDR2 400/533 SODIMM, up to 2 GB
- 4 x 10/100/1000 Mbps LAN ports
- One MINI PCI Slot
- Supports one fixed 3.5" IDE or SATA HDD
- One 10/100 Mbps LAN port for management

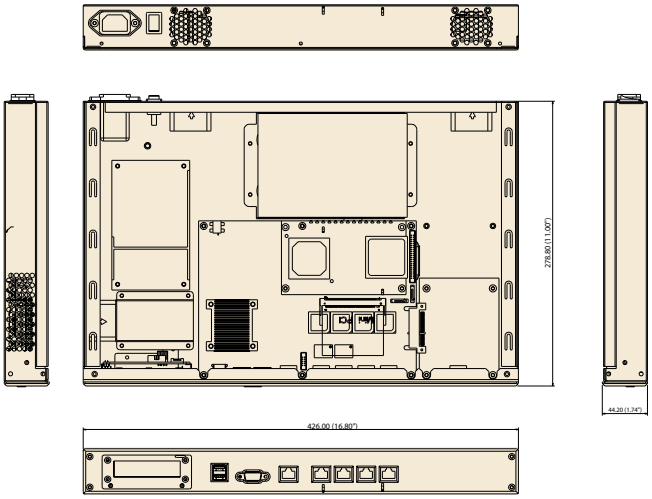
Introduction

Conceived as a powerful but low power consumption rack-mount Internet security platform, the FWA-3700 was specifically designed for mainstream IDS/IPS, Anti-virus, VPN gateway and Unified Threat Management (UTM) applications. Using the latest Intel Pentium M processor combined with the Mobile Intel 915GM Express chipset and Intel ICH6M I/O Controller Hub, the FWA-3700 provides unprecedented performance, connectivity and throughput without compromising on system thermal design. It supports up to 2 GB of DDR2 system memory at 400 or 533MHz on dual-channel SODIMM banks. By leveraging PCI Express technology, the FWA-3700 maximizes I/O throughput by taking full advantage of the ICH6-M's PCI Express (PCIe) capability. Four PCIe lanes connect directly to the Marvell 8053 Ethernet controllers to provide bi-directional 2 Gb/s peak bandwidth for Gigabit Ethernet support at wire speed. The system supports one optional 3.5" IDE or SATA HDD, and Compact Flash for OS and Internet security applications. The front panel has a 9-pin RS-232 serial port and on

Specifications

Processor System	CPU	Intel P-M/Celeron-M 533/400 FSB processor
	Max Speed	2.0 GHz
	Chipset	Intel 915GM + ICH6M
	Front Side Bus	533/400
	BIOS	Award 4 MB Flash
Memory	Technology	Dual channel DDR2 533/400 SODIMM
	Capacity	Up to 2 GB with 2 slots
Expansion	Onboard Expansion slots	1 proprietary internal PCI-E x4 connector 1 32bit/33 Mhz Mini-PCI Slot
Ethernet	Fast Ethernet	1 10/100 Intel 82562 FE port for management
	Gigabit Ethernet	4 10/100/1000 PCI-E Marvel 8053 GBE ports
	LAN bypass	2 segment on GbE ports
Storage	Controller	Supports 2.5" HDD x 1 on IDE0, or SATA HDD x 1 - ATA100 connector x 1 on IDE 0 (Secondary) - Max. Data Transfer Rate 100 MB/s - Support 2.5" ATA HDD
	SATA	SATA interface - SATA connector x 1 on separate SATA channels - Max. Data Transfer Rate 150 MB/s - Support 3.5" SATA HDD
	Compact Flash Socket	One CF socket on IDE 0 (Primary)
Peripheral Characteritcs	USB	2 (USB 2.0)
	Serial	1 (RS-2 32)
	LCD Module	1
	K/B, Mouse, LPT, CRT	Pin Headers

Dimensions



Unit: mm (inch)

Specifications Cont.

Power	Watt	125 W	
	Input	90 ~ 240 V AC, auto range	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Peripheral Characteritcs	Dimensions (W x H x D)	426 x 44 x 280 (16.7" x 1.7" x 11")	
	Weight	Weight 4.5 Kg (9.9 lb)	

Ordering Information

Part Number	Processor	LAN	Power Supply
FWA-3700	-	5	180 W

Packing List

Part Number	Description
1701160101	VGA port cable (for system installation use)
1703080160	PS/2 Y cable MINI DIN 16CM

FWA-3620

Rackmount Internet Security Platform with 3 Front LAN Ports and Dual PCI Expansion Slots

Features

- 1U rackmount Internet security platform
- Socket 370 Intel® Pentium® III/Celeron® up to 1.26 GHz
- Dual 32-bit/33 MHz PCI expansion slots
- Three 10/100 Fast Ethernet ports
- Console port for local setting
- Hard drive mounting bracket for 3.5” drive

CE FCC

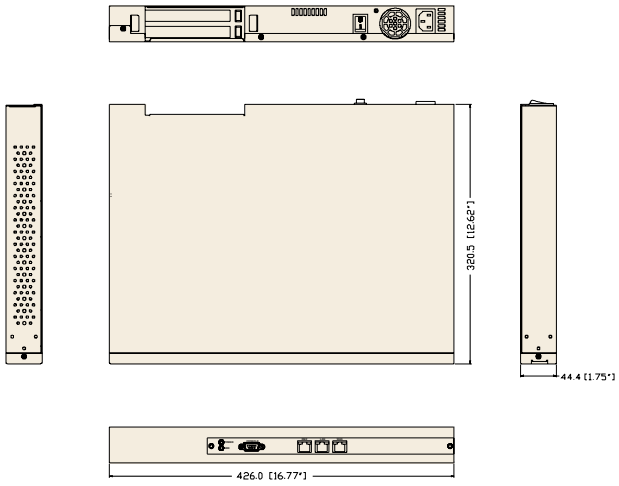
Introduction

Conceived as a powerful rackmount Internet security platform, the FWA-3620 is specifically designed for Internet secure connectivity. Designed with the Intel Pentium III and Celeron processor, it provides high performance and meets the requirements of Internet security appliances. The system supports CompactFlash for use in installing OS and Internet security applications. This avoids service disruption caused by hard disk mechanical/magnetic failures. In addition, the FWA-3620 can support system memory up to 512 MB SDRAM. Both CompactFlash and SDRAM can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-3620 offers three 10/100 Mbps auto-sensing Fast Ethernet ports in the front panel. There are two LED Indicators which monitor power and HDD activities. For easy access, the front panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-3620 has a place reserved for an optional 3.5” IDE HDD and dual PCI expansion slots. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.26 GHz	1.2 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	Intel 815E	
	BIOS	Award 4 Mb Flash	
Memory	Technology	PC-133 SDRAM	
	Max. Capacity	512 MB	
	Socket	144-pin SODIMM	
Ethernet	Interface	10/100 Base-TX	
	Controller	Intel 82559ER x 3	
	Connector	RJ-45 x 3	
Drive Bay	3.5" HDD	1 (optional)	
Cooling	Blower	1 (3 CFM), 1 (4 CFM)	
Management	Console	RS-232 x 1	
Miscellaneous	Control	Power switch	
	Indicators	2 LED indicators for Power/HDD	
	CompactFlash Socket	1	
Adapter Power Requirement	Input	ATX PS, AC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	180 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	426 x 44 x 320 mm (16.8" x 1.7"x 12.6")	
	Weight	4.5 Kg (9.9 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	Power Supply	PCI Slot	CompactFlash	SDRAM	HDD Drive
FWA-3620	-	3	180 W	2	-	-	-

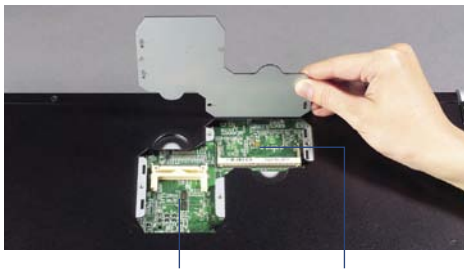
Packing List

Part Number	Description
170144030A	IDE flat cable 40P
1701100306	Console cable
1961600000	CPU cooler

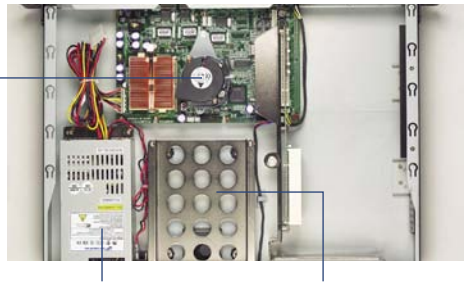
Accessories

Part Number	Description
1703080101	Power cable wire 7P/Big 4P*2 10 cm
1703100260	USB cable
1700260250	Parallel cable: ASS'Y LPT port 25 cm 25P to 26P 2.0 mm
1700100250	Secondary cable: ASS'Y COM port 25 cm D-SUB 9P to 10P 2.0 mm
1703080160	PS/2 Y cable MINI DIN 16CM
1701160101	VGA cable: ASS'Y VGA 10 cm D-SUB 15P to 16P 2.0 mm
1701440350	Flat cable 44P 35 cm Gray IDC44P/IDC44P/IDC44P
1701440500	Flat cable 40P 50 cm Gray IDC40P/IDC40P/HOUSING44P
1700081401	Cable Ethernet cross over 8P to 8P 140 cm

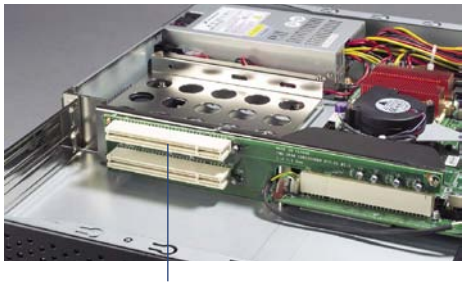
RS-232 console port Three LAN ports



CompactFlash socket SDRAM socket



Blower Power supply 3.5" IDE HDD space



Dual 32-bit/33 MHz PCI expansion slots

FWA-3660

Rackmount Internet Security Platform with 4 Front LAN Ports and LCD Display

Features

- 1U rackmount Internet security platform for ROBO, SOHO and SMB
- Four 10/100 Fast Ethernet ports
- Console port for local setting
- Eight LED indicators show the status of 4 LANs
- Hard drive mounting bracket for 3.5” drive
- LCD display module

CE FCC

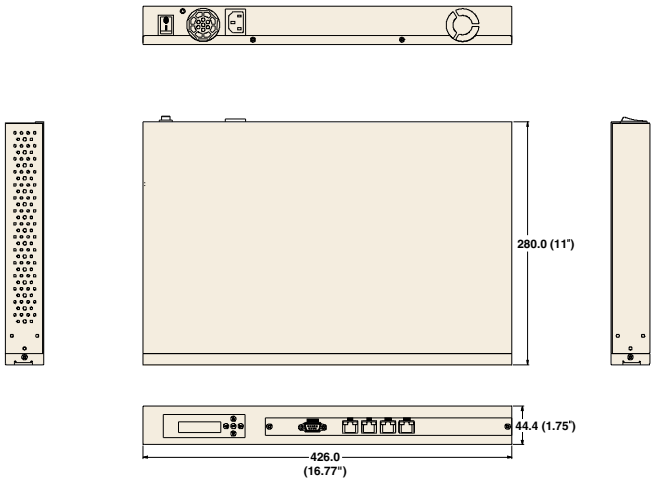
Introduction

Conceived as a powerful rackmount Internet security platform, the FWA-3660 is specifically designed for Internet secure connectivity. It is suitable for SOHO (Small Office, Home Office), SMB (Small Medium Business), and ROBO (Remote Office, Branch Office) segments. Designed with the Intel® Pentium® III and Celeron® processor, it provides high performance and meets the requirements of Internet security appliances. The system supports CompactFlash for use in installing OS and Internet security applications. This prevents service disruption caused by hard disk mechanical/magnetic failures. In addition, the FWA-3660 can support system memory up to 512 MB SDRAM. Both CompactFlash and SDRAM can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-3660 offers four 10/100 Mbps auto-sensing Fast Ethernet ports in the front panel. There are eight LED indicators on the front panel display which monitor LAN activities and LAN links. For easy access, the front panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-3660 has a place reserved for an optional 3.5” IDE HDD. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.26 GHz	1.2 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	Intel 815E	
	BIOS	Award 4 Mb Flash	
Memory	Technology	PC-133 SDRAM	
	Max. Capacity	512 MB	
	Socket	144-pin SODIMM	
Ethernet	Interface	10/100Base-TX	
	Controller	Intel 82559ER x 3, Intel 82562ET x 1	
	Connector	RJ-45 x 4	
Drive Bay	3.5" HDD	1 (optional)	
Cooling	Fan	1 (15 CFM)	
	Blower	1	
Management	Console	RS-232 x 1	
Miscellaneous	Control	Power switch	
	Indicator	8 LED indicators for 4 LANs	
	CompactFlash Socket	1	
	LCD Display Module	1	
Power Requirement	Input	ATX PS, AC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	180 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	426 x 44 x 280 mm (16.7" x 1.7" x 11")	
	Weight	4.5 Kg (9.9 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	Power Supply	CompactFlash	SDRAM	HDD Drive
FWA-3660	-	4	180 W	-	-	-

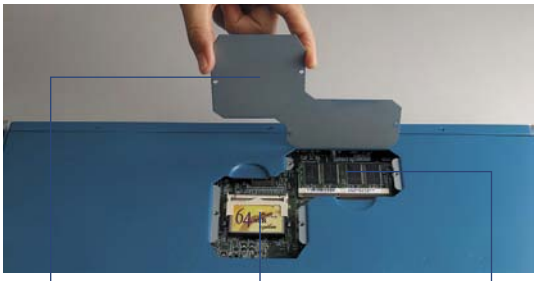
Packing List

Part Number	Description
170144030A	IDE flat cable 40P
1701100306	Console cable
1961600000	CPU cooler

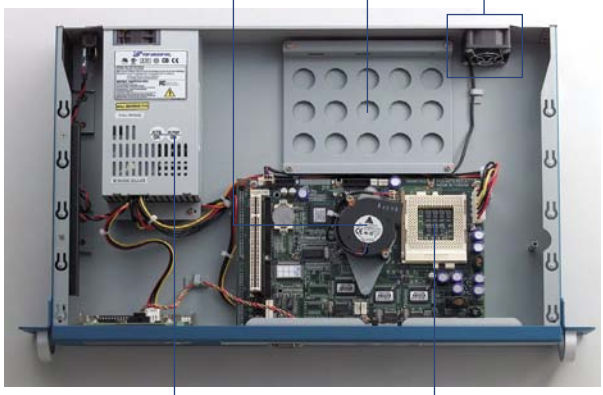
Accessories

Part Number	Description
1703080101	Power cable wire 7P/Big 4P*2 10 cm
1703100260	USB cable
1700260250	Parallel cable: ASS'Y LPT port 25 cm 25P to 26P 2.0 mm
1700100250	Secondary cable: ASS'Y COM port 25 cm D-SUB 9P to 10P 2.0 mm
1703080160	PS/2 Y cable MINI DIN 16CM
1701160101	VGA cable: ASS'Y VGA 10 cm D-SUB 15P to 16P 2.0 mm
1701440350	Flat cable 44P 35 cm Gray IDC44P/IDC44P/IDC44P
1701440500	Flat cable 40P 50 cm Gray IDC40P/IDC40P/HOUSING44P
1700081401	Cable Ethernet cross over 8P to 8P 140 cm

LCD display module | RS-232 console port | Four LAN ports



Removable cover allows easy maintenance and software upgrades | CompactFlash socket | SDRAM socket



Blower | 3.5" HDD space | One 15-CFM cooling fan

Power supply | FC-PGA370 CPU socket

FWA-3680

Rackmount Internet Security Platform with 4 Front LAN Ports and Dual PCI Expansion Slots

CE FCC

Features

- 1U rackmount Internet security platform
- Socket 370 Intel® Pentium® III or Celeron® up to 1.26 GHz
- Dual 32-bit/33 MHz PCI expansion slots
- Four 10/100 Fast Ethernet ports
- Console port for local setting
- Hard drive mounting bracket for 3.5” drive

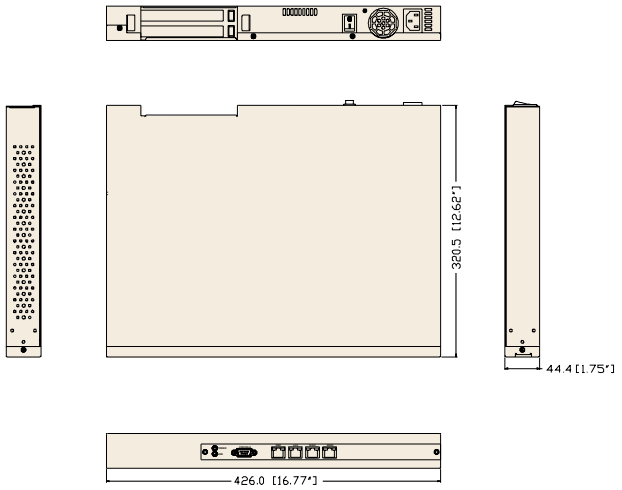
Introduction

Conceived as a powerful rackmount Internet security platform, the FWA-3680 is specifically designed for Internet secure connectivity. Designed with the Intel Pentium III or Celeron processor, it provides high performance and meets the requirements of Internet security appliances. The system supports CompactFlash for use in installing OS and Internet security applications. This avoids service disruption caused by hard disk mechanical/magnetic failures. In addition, the FWA-3680 can support system memory up to 512 MB SDRAM. Both CompactFlash and SDRAM can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-3680 offers four 10/100 Mbps auto-sensing Fast Ethernet ports in the front panel. There are two LED Indicators which monitor Power and HDD activities. For easy access, the front panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-3680 has a place reserved for an optional 3.5” IDE HDD and dual PCI expansion slots. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.26 GHz	1.2 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	Intel 815E	
	BIOS	Award 4 Mb Flash	
Memory	Technology	PC-133 SDRAM	
	Max. Capacity	512 MB	
	Socket	144-pin SO-DIMM	
Ethernet	Interface	10/100Base-TX	
	Controller	Intel 82559ER x 3, Intel 82564ET x 1	
	Connector	RJ-45 x 4	
Drive Bay	3.5" HDD	1 (optional)	
Cooling	Blower	1 (3 CFM), 1 (4 CFM)	
Management	Console	RS-232 x 1	
Miscellaneous	Control	Power switch	
	Indicators	2 LED indicators for Power/HDD	
	CompactFlash Socket	1	
Power Requirement	Input	ATX PS, AC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	180 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	426 x 44 x 320 mm (16.8" x 1.7" x 12.6")	
	Weight	4.5 Kg (9.9 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	Power Supply	PCI Slot	CompactFlash	SDRAM	HDD Drive
FWA-3680	-	4	180 W	2	-	-	-

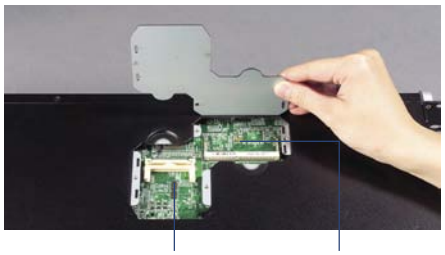
Packing List

Part Number	Description
170144030A	IDE flat cable 40P
1701100306	Console cable
1961600000	CPU cooler

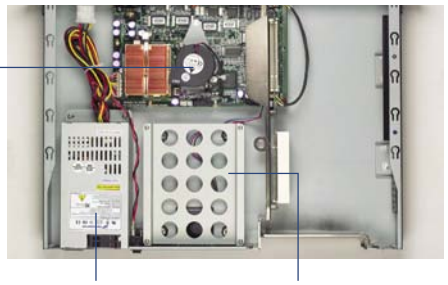
Accessories

Part Number	Description
1703080101	Power cable wire 7P/Big 4P*2 10 cm
1703100260	USB cable
1700260250	Parallel cable: ASS'Y LPT port 25 cm 25P to 26P 2.0 mm
1700100250	Secondary cable: ASS'Y COM port 25 cm D-SUB 9P to 10P 2.0 mm
1703080160	PS/2 Y cable MINI DIN 16CM
1701160101	VGA cable: ASS'Y VGA 10 cm D-SUB 15P to 16P 2.0 mm
1701440350	Flat cable 44P 35 cm Gray IDC44P/IDC44P/IDC44P
1701440500	Flat cable 40P 50 cm Gray IDC40P/IDC40P/HOUSING44P
1700081401	Cable Ethernet cross over 8P to 8P 140 cm

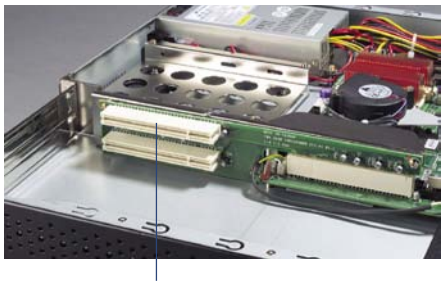
RS-232 console port Four LAN ports



CompactFlash socket SDRAM socket



Blower Power supply 3.5" IDE HDD space



Dual 32-bit/33 MHz PCI expansion slots

FWA-3140

Rackmount Internet Security Platform with 4 Front LAN Ports/Dual PCI Expansion Slots/ LCD Display

Features

- 1U rackmount Internet security platform
- Socket 478 Intel® Pentium® 4 up to 3.06 GHz
- Dual 32-bit/33 MHz PCI expansion slots
- Four 10/100/1000 Mbps LAN ports
- Console port for local setting
- Hard drive mounting bracket for 3.5" drive
- LCD display module
- LAN bypass function

CE FCC

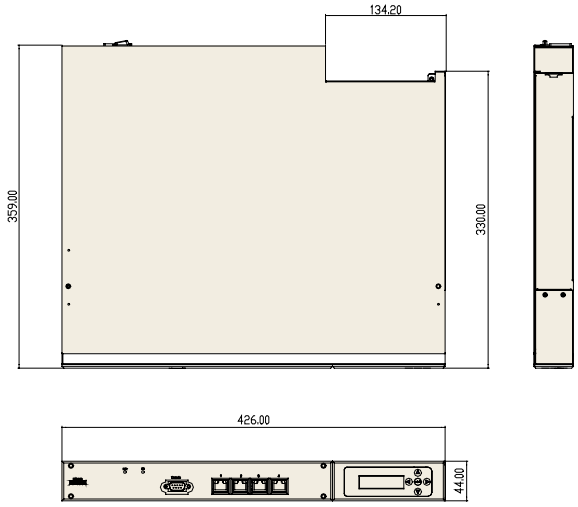
Introduction

Conceived as a powerful rackmount Internet security platform, the FWA-3140 was specifically designed for Internet secure connectivity. Designed with the Intel Pentium 4 processor, it provides high performance and meets the requirements of Internet security appliances. The system supports CompactFlash for OS and Internet security applications. This avoids service disruption caused by hard disk mechanical/magnetic failures. In addition, the FWA-3140 can support system memory up to 2 GB DDR memory. Both CompactFlash and memory can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-3140 offers four 10/100/1000 Mbps LAN ports in the front panel. For easy access, the front panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-3140 provides optional 3.5" IDE HDD and 2 PCI slots. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Pentium 4	
	Max. Speed	533/400 MHz FSB	
	Chipset	Intel 845GV ICH4	
	BIOS	Award 2 Mb Flash	
Memory	Technology	DDR-SDRAM 200/266/333	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x 2	
Ethernet	Interface	10/100 Base-TX	10/100/1000 Base-TX
	Controller	Intel 82551QM	Intel 82540EM
	Connector	RJ-45 x 4	
Drive Bay	3.5"HDD	1	
Cooling	Fan	2 (15 CFM)	
	Blower	1	
Management	Console	RS-232 x 1	
Miscellaneous	Power switch	1	
	Indicators	LED indicators for Power/HDD	
	CompactFlash Socket	1	
	LCD Display Module	1	
Adapter Power Requirement	Input	ATX PS, AC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	250 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	426 x 44 x 360 mm (16.7" x 1.7" x 14.1")	
	Weight	4.5 Kg (9.9 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

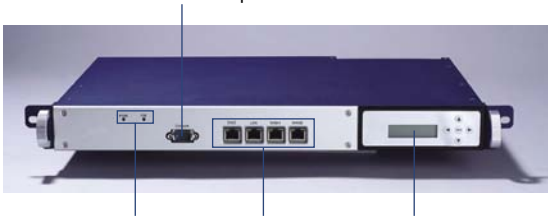
Part Number	Processor	LAN	Power supply	PCI slot	CompactFlash	SDRAM	HDD drive	LAN bypass
FWA-3140-A	-	4FE	250 W	2	-	-	-	2
FWA-3140-B	-	2FE, 2GbE	250 W	2	-	-	-	2
FWA-3140-C	-	4GbE	250 W	2	-	-	-	2

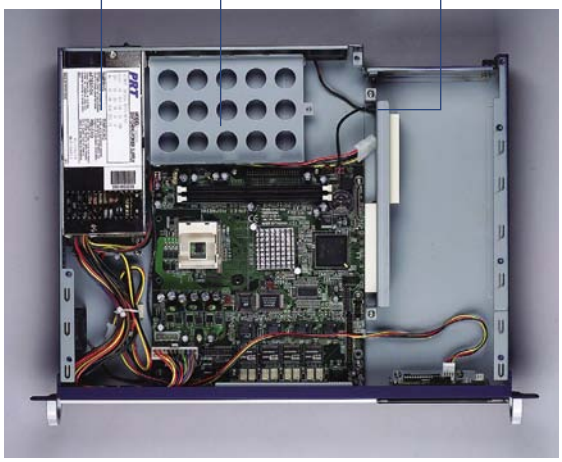
Accessories

Part Number	Description
1701160101	VGA port cable (for system installation use)
1703080160	PS/2 Y cable MINI DIN 16CM

Packing List

Part Number	Description
1700000361	Flat cable 40P/40P 16cm (for 3.5" HDD drive use)





FWA-3180

Rackmount Internet Security Platform with 8 Front LAN Ports/PCI Expansion Slot/ LCD Display

Features

- 1U rackmount Internet security platform
- Socket 478 Intel® Pentium® 4 up to 3.06 GHz
- One 32-bit/33 MHz PCI expansion slot
- Eight 10/100/1000 LAN ports
- Console port for local setting
- Hard drive mounting bracket for 3.5" drive
- LCD display module
- LAN bypass function

CE FCC

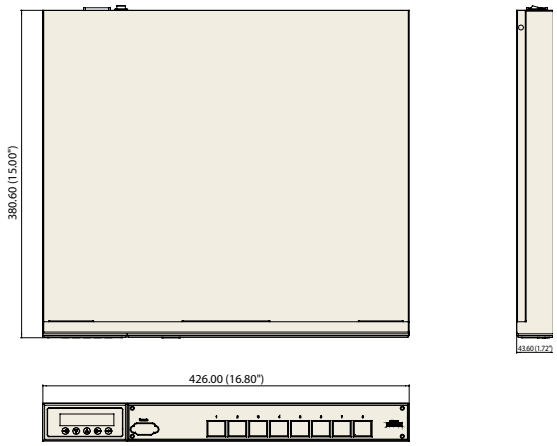
Introduction

Conceived as a powerful rackmount Internet security platform, the FWA-3180 was specifically designed for Internet secure connectivity. Designed with the Intel Pentium 4 processor, it offers high performance and meets the requirements of Internet security appliances. The system supports CompactFlash for OS and Internet security applications. This prevents service disruption caused by hard disk mechanical/ magnetic failures. In addition, the FWA-3180 can support system memory up to 2 GB DDR memory. Both CompactFlash and memory can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-3180 offers eight 10/100/ 1000 Mbps LAN ports in the front panel. For easy access, the front panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-3180 provides optional 3.5" IDE HDD and 1 PCI slot. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Pentium 4	
	Max. Speed	533/400 MHz FSB	
	Chipset	Intel 845GV ICH4	
	BIOS	Award 2 Mb Flash	
Memory	Technology	DDR-SDRAM 200/266/333	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x 2	
Ethernet	Interface	10/100 Base-TX	10/100/1000 Base-TX
	Controller	Intel 82551QM	Intel 82540EM
	Connector	RJ-45 x 8	
Drive Bay	3.5"HDD	1	
Cooling	Fan	2 (15 CFM)	
	Blower	1	
Management	Console	RS-232 x 1	
Miscellaneous	Power Switch	1	
	Indicators	LED indicators for Power/HDD	
	CompactFlash Socket	1	
	LCD Display Module	1	
Adapter Power Requirement	Input	ATX PS, AC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	250 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	426 x 44.4 x 380 mm (16.7" x 1.7" x 14.9")	
	Weight	4.5 Kg (9.9 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

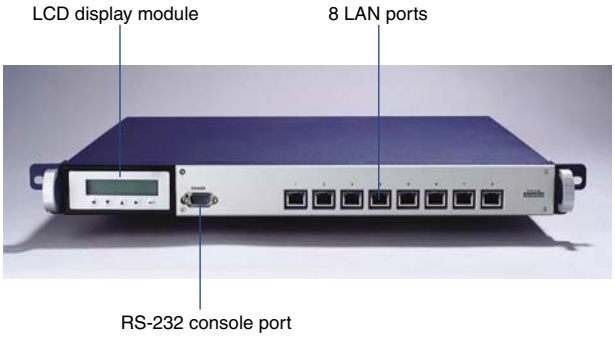
Part Number	Processor	LAN	Power Supply	PCI Slot	Compact Flash	SDRAM	HDD Drive	LAN Bypass
FWA-3180-A	-	8FE	250 W	1	-	-	-	4
FWA-3180-C	-	8GbE	250 W	1	-	-	-	4

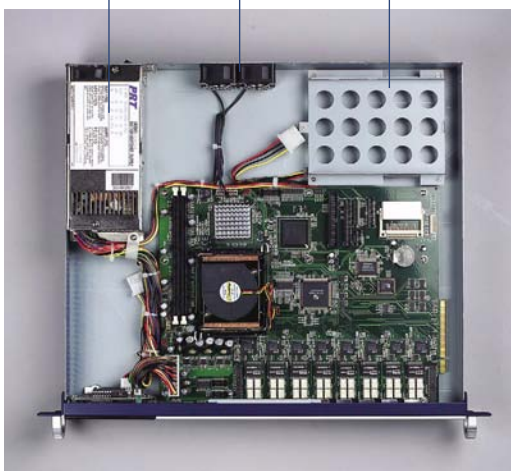
Accessories

Part Number	Description
1701160101	VGA port cable (for system installation use)
1703080160	PS/2 Y cable MINI DIN 16CM

Packing List

Part Number	Description
1700000361	Flat cable 40P/40P 16cm (for 3.5" HDD drive use)





FWA-4180

Rackmount Internet Security Platform with 8 Front LAN Ports/PCI-X Expansion Slot/LCD Display

CE FCC

Features

- 1U rackmount Internet security platform
- Socket 478 Intel® Pentium® 4 up to 3.2 GHz
- One 64-bit/66 MHz PCI-X expansion slot
- Eight 10/100/1000 LAN ports
- Console port for local setting
- Hard drive mounting bracket for 3.5" drive
- LCD display module
- LAN bypass function

Introduction

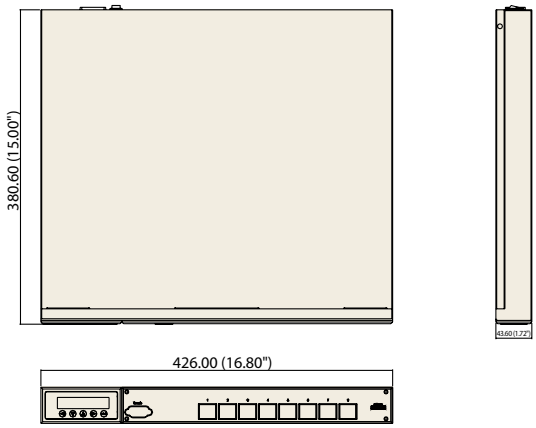
Conceived as a powerful rackmount Internet security platform, the FWA-4180 was specifically designed for Internet secure connectivity. Designed with the Intel Pentium 4 processor, it provides high performance and meets the requirements of Internet security appliances. The system supports CompactFlash for OS and Internet security applications. This prevents service disruption caused by hard disk mechanical/ magnetic failures. In addition, the FWA-4180 can support system memory up to 2 GB DDR memory. Both CompactFlash and memory can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-4180 offers eight 10/100/1000 Mbps LANs ports in the front panel. For easy access, the front panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-4180 provides optional 3.5" IDE HDD and one PCI-X slot. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Pentium 4	
	Max. Speed	533/800 MHz FSB	
	Chipset	Intel 875P, 6300 ESB	
	BIOS	Award 4 Mb Flash	
Memory	Technology	DDR-SDRAM 266/333/400	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x 2	
Ethernet	Interface	10/100/1000 Base-TX	
	Controller	Intel 82541GI, Intel 82547GI, Intel 82546GB	
	Connector	RJ-45 x 8	
Drive Bay	3.5"HDD	1	
Cooling	Fan	4 (15 CFM)	
	Blower	1	
Management	Console	RS-232 x 1	
Miscellaneous	Power Switch	1	
	Indicators	LED indicators for Power/HDD	
	CompactFlash Socket	1	
	LCD Display Module	1	
Adapter Power Requirement	Input	ATX PS, AC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	250 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	426 x 44.4 x 380 mm (16.7" x 1.7" x 14.9")	
	Weight	4.5 Kg (9.9 lb)	

*Note: If PCI-X slot is occupied, only six 10/100/1000 LAN ports are supported.

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	Power Supply	PCI-X Slot	Compact Flash	SDRAM	HDD Drive	LAN Bypass
FWA-4180-A	-	8GbE	250 W	1	-	-	-	1

Accessories

Part Number	Description
1703080160	PS/2 Y cable MINI DIN 16CM

Packing List

Part Number	Description
1700000704	IDE flat cable ATA100 40P/40P 25 cm

FWA-700

Tabletop Internet Security Platform with 4 Rear LAN Ports

Features

- Supports Intel® Pentium® M or Celeron® M Processor
- Dual channel DDR2 400/533 SODIMM, up to 2 GB
- 4 x 10/100/1000 Mbps LAN ports
- One MINI PCI Slot
- Supports one fixed 2.5" IDE
- One 10/100 Mbps LAN port for management

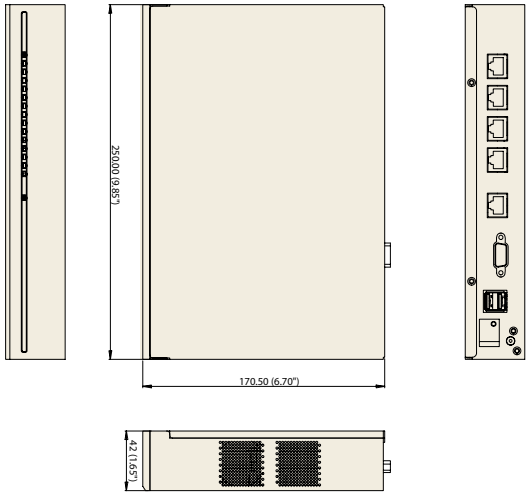
Introduction

Conceived as a powerful but low power consumption rack-mount Internet security platform, the FWA-700 was specifically designed for SMB/SOHO segment, which can be served as a multi-functional gateway, such as IDS/IPS, Anti-virus, VPN gateway and Unified Threat Management (UTM) applications. Using the latest Intel Pentium M processor combined with the Mobile Intel 915GM Express chipset and Intel ICH6M I/O Controller Hub, the FWA-700 provides unprecedented performance, connectivity and throughput without compromising on system thermal design. It supports up to 2 GB of DDR2 system memory at 400 or 533 MHz on dual-channel SODIMM banks. By leveraging PCI Express technology, the FWA-700 maximizes I/O throughput by taking full advantage of the ICH6-M's PCI Express (PCIe) capability. Four PCIe lanes connect directly to the Marvell 8053 Ethernet controllers to provide bi-directional 2 Gb/s peak bandwidth for Gigabit Ethernet support at wire speed. The system supports one optional 2.5" IDE, and Compact Flash for OS and Internet security applications. The rear I/O panel has a 9-pin RS-232 serial port and one 10/100 managed LAN port. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel P-M/Celeron-M 533/400 FSB processor	
	Max Speed	2.0 GHz	
	Chipset	Intel 915 GM + ICH6M	
	Front Side Bus	533/400	
	BIOS	Award 4 MB Flash	
Memory	Technology	Dual channel DDR2 533/400 SODIMM	
	Capacity	Up to 2 GB with 2 slots	
Expansion	Onboard Expansion slots	One internal PCIe x 4 connector, with PCIe x 1 bus	
		One 32 bit/33 Mhz Mini-PCI Slot	
Ethernet	Fast Ethernet	One 10/100 Intel 82562 FE port for management	
	Gigabit Ethernet	Four 10/100/1000 PCIe Marvel 8053 GBe ports	
	LAN bypass	Two segment on GbE ports	
Storage	Controller	ICH6MIDE interface - ATA100 connector x 1 on	
	IDE	IDE 0 (Secondary)- Max. Data Transfer Rate 100 MB/s- Support 2.5" ATA HDD	
	Compact Flash Socket	One CF socket on IDE 0 (Primary)	
Peripheral	USB	Two USB 2.0	
	Serial	One RS-232	
	K/B, Mouse, LPT, CRT	Pin headers	
Power	Watt	65 W	
	Input	100 ~ 240 V AC, auto-range	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical	Dimensions (W x H x D)		
	Weight	Weight 1.2 Kg (8.8 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	AC Adapter
FWA-700	-	5	65 W

Accessories

Part Number	Description
1701160101	VGA port cable (for system installation use)
1703080160	PS/2 Y cable MINI DIN 16CM

FWA-60A

Tabletop Internet Security Platform with 3 Rear LAN Ports and PCI Expansion Slot

CE FCC

Features

- Compact tabletop Internet security platform
- Socket 370 Intel® Pentium® III/Celeron® up to 1.26 GHz
- One 32-bit/33 MHz PCI expansion slot
- Three 10/100 Fast Ethernet ports
- Console port for local setting
- Seven LED indicators show the status of 3 LANs and power
- Hard drive mounting bracket for slim type 2.5" drive

Introduction

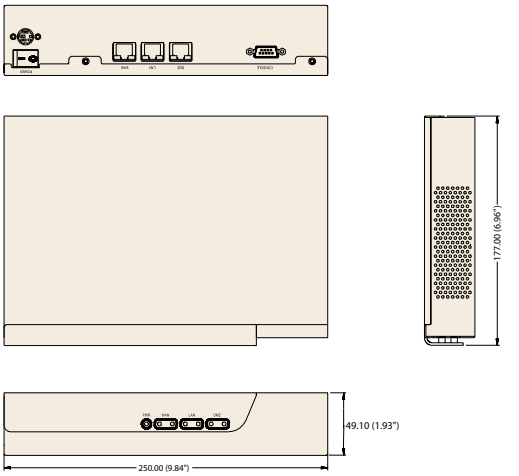
The FWA-60A is a compact yet powerful Internet security platform that is specifically designed for Internet secure connectivity. Designed with the Intel Celeron and Pentium III (Tualatin) 1.26 GHz processor or 1 PCI slot (if PCI slot is occupied, only Celeron 566 MHz is supported), it has low power consumption and high performance that meets Internet security appliance requirements. The system supports CompactFlash for use in installing OS and Internet security applications. This prevents service disruption caused by hard disk mechanical/magnetic failures. In addition, the FWA-60A can support system memory up to 512 MB SDRAM. Both CompactFlash and SDRAM can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-60A offers three 10/100 Mbps auto-sensing Fast Ethernet ports on the back panel. There are seven LED indicators on the front panel display that monitor power status, LAN activities and LAN links. For easy access, the back panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-60A has a place reserved for an optional slim-type 2.5" IDE HDD. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Pentium III (Tualatin)	Intel Celeron
	Max. Speed	1.26 GHz	566 MHz with one PCI slot
	L2 Cache	512/256 KB	256/128 KB
	Chipset	Intel 815E	
	BIOS	Award 4 Mb Flash	
Memory	Technology	PC-133 SDRAM	
	Max. Capacity	512 MB	
	Socket	144-pin SODIMM	
Ethernet	Interface	10/100Base-TX	
	Controller	Intel 82559ER x 3	
	Connector	RJ-45 x 3	
Expansion	PCI	32-bit/33 MHz x 1	
Drive Bay	2.5" HDD	1 (optional)	
Cooling	Fan	2 (5 CFM/each)	
	Blower	1 (4 CFM)	
Management	Console	RS-232 x 1	
Miscellaneous	Control	Power switch	
	Indicators	7 LEDs for 3 LANs and power on the front panel	
	CompactFlash Socket	1	
Adapter Power Requirement	Input	AC/DC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	40 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	250 x 49.1 x 177 mm (9.8" x 1.93" x 6.9")	
	Weight	1.2 Kg (2.6 lb)	

Note: If using Intel Pentium III processor, please install the blower in accessory box
If using Intel Celeron processor, you don't need to install the blower in accessory box
If using Intel Pentium III processor, neither riser card nor 2.5" IDE HDD can be installed

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	AC Adapter	CompactFlash	SDRAM	HDD Drive
FWA-60A	-	3	40 W	-	-	-

Packing List

Part Number	Description
1701440155	IDE HDD flat cable 44P
1701100306	Console cable
1961660000	CPU cooler
96969578A0	Riser card

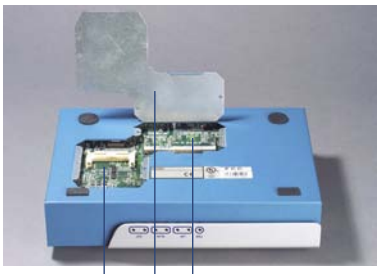
Accessories

Part Number	Description
1703080101	Power cable wire 7P/Big 4P*2 10 cm
1703100260	USB cable
1700260250	Parallel cable: ASS'Y LPT port 25 cm 25P to 26P 2.0 mm
1700100250	Secondary cable: ASS'Y COM port 25 cm D-SUB 9P to 10P 2.0 mm
1703080160	PS/2 Y cable MINI DIN 16CM
1701160101	VGA cable: ASS'Y VGA 10 cm D-SUB 15P to 16P 2.0 mm
1701440350	Flat cable 44P 35 cm Gray IDC44P/IDC44P/IDC44P
1701440500	Flat cable 40P 50 cm Gray IDC40P/IDC40P/HOUSING44P
1700081401	Cable Ethernet cross over 8P to 8P 140 cm

7 LED indicators (Power x 1, LAN x 3)

RS-232 console port

Three LAN ports

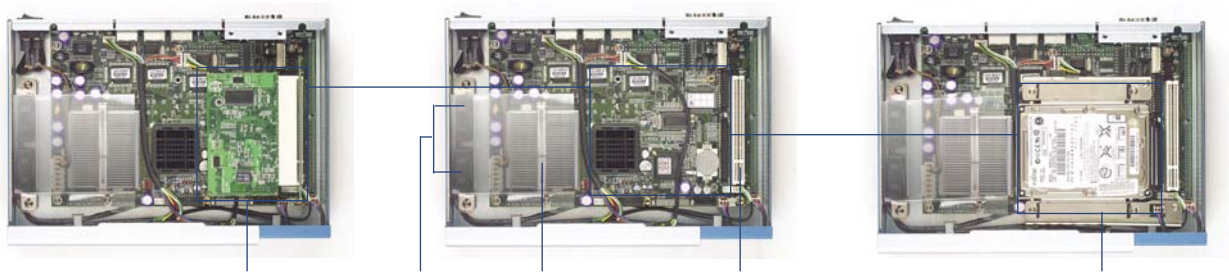


CompactFlash socket

SDRAM socket

Removable cover allows easy maintenance and software upgrade

Optional Device only for Celeron Processor: Either riser card or 2.5" IDE HDD



Expansion PCI slot with riser card

Two 5-CFM fans located next to the CPU for best ventilation

Intel Pentium III/Celeron CPU

1 PCI slot

2.5" IDE HDD

FWA-600

Tabletop Internet Security Platform with 3 Rear LAN Ports

Features

- Internet security platform for ROBO, SOHO and SMB
- Three 10/100 Fast Ethernet ports
- Console port for local setting
- Seven LED indicators show the status of 3 LANs and power
- Hard drive mounting bracket for slim type 2.5" drive

CE FCC

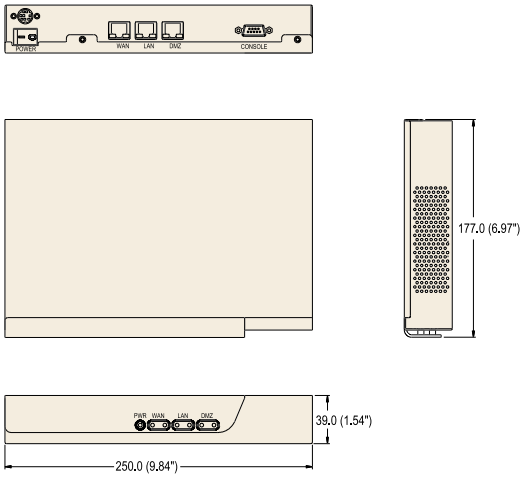
Introduction

The FWA-600 is a compact yet powerful Internet security platform that is specifically designed for Internet secure connectivity. It is suitable for SOHO (Small Office, Home Office), SMB (Small Medium Business), and ROBO (Remote Office, Branch Office) segments. Designed with the Intel® Celeron® 566 MHz processor, it has low power consumption and high performance that meets Internet security appliance requirements. The system supports CompactFlash for use in installing OS and Internet security applications. This prevents service disruption caused by hard disk mechanical/magnetic failures. In addition, the FWA-600 can support system memory up to 512 MB SDRAM. Both CompactFlash and SDRAM can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-600 offers three 10/100 Mbps auto-sensing Fast Ethernet ports in the back panel. There are seven LED indicators on the front panel display which monitor power status, LAN activities and LAN links. For easy access, the back panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-600 has a place reserved for an optional slim type 2.5" IDE HDD. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Celeron	
	Max. Speed	566 MHz	
	L2 Cache	128 KB	
	Chipset	Intel 815E	
	BIOS	Award 4 Mb Flash	
Memory	Technology	PC-133 SDRAM	
	Max. Capacity	512 MB	
	Socket	144-pin SO-DIMM	
Ethernet	Interface	10/100Base-TX	
	Controller	Intel 82559ER x 3	
	Connector	RJ-45 x 3	
Drive Bay	2.5" HDD	1 (optional)	
Cooling	Fan	2 (5 CFM each)	
Management	Console	RS-232 x 1	
Miscellaneous	Control	Power switch	
	Indicator	7 LED indicators for 3 LANs and power on the front panel	
	CompactFlash Socket	1	
Adapter Power Requirement	Input	AC/DC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	40 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	250 x 39 x 177 mm (9.8" x 1.5" x 6.9")	
	Weight	1.2 Kg (2.6 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	AC Adapter	CompactFlash	SDRAM	HDD Drive
FWA-600	-	3	40 W	-	-	-

Packing List

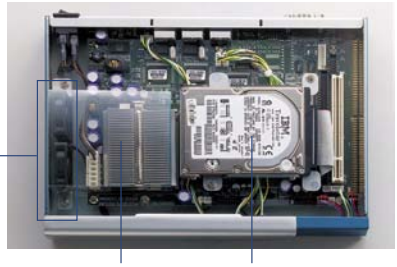
Part Number	Description
1701440155	IDE HDD flat cable 44P
1701100306	Console cable
1961660000	CPU cooler

Accessories

Part Number	Description
1703080101	Power cable wire 7P/Big 4P*2 10 cm
1703100260	USB cable
1700260250	Parallel cable: ASS'Y LPT port 25 cm 25P to 26P 2.0 mm
1700100250	Secondary cable: ASS'Y COM port 25 cm D-SUB 9P to 10P 2.0 mm
1703080160	PS/2 Y cable MINI DIN 16CM
1701160101	VGA cable: ASS'Y VGA 10 cm D-SUB 15P to 16P 2.0 mm
1701440350	Flat cable 44P 35 cm Gray IDC44P/IDC44P/IDC44P
1701440500	Flat cable 40P 50 cm Gray IDC40P/IDC40P/HOUSING44P
1700081401	Cable Ethernet cross over 8P to 8P 140 cm

7 LED indicators (Power x 1, LAN x 3)

Two 5-CFM fans located next to the CPU for best ventilation



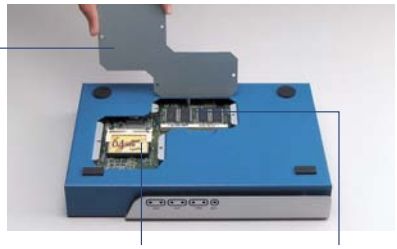
Intel Celeron CPU

2.5" IDE HDD space

RS-232 console port

Three LAN ports

Removable cover allows easy maintenance and software upgrades



CompactFlash socket

SDRAM socket

FWA-660

Tabletop Internet Security Platform with 4 Rear LAN Ports

Features

- Internet security platform for ROBO, SOHO and SMB
- Four 10/100 Fast Ethernet ports
- Console port for local setting
- Nine LED indicators show the status of 4 LANs and power
- Hard drive mounting bracket for slim type 2.5" drive

CE FCC

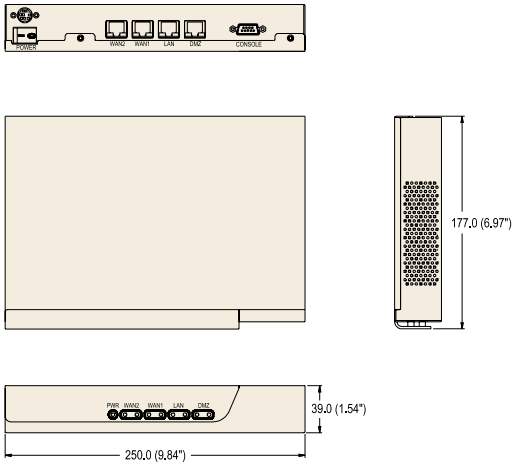
Introduction

The FWA-660 is a compact yet powerful Internet security platform that is specifically designed for Internet secure connectivity. It is suitable for SOHO (Small Office, Home Office), SMB (Small Medium Business), and ROBO (Remote Office, Branch Office) segments. Designed with the Intel® Celeron® 566 MHz processor, it has low power consumption and high performance that meets Internet security appliance requirements. The system supports CompactFlash for use in installing OS and Internet security applications. This avoids service disruption caused by hard disk mechanical/magnetic failures. In addition, the FWA-660 can support system memory up to 512 MB SDRAM. Both CompactFlash and SDRAM can be accessed and replaced for software upgrades through an easily removable cover. Designed with the Plug-and-Serve concept in mind, the FWA-660 offers four 10/100 Mbps auto-sensing Fast Ethernet ports in the back panel. There are nine LED indicators on the front panel display which monitor power status, LAN activities and LAN links. For easy access, the back panel has a 9-pin, RS-232 serial port for local system management, maintenance and diagnostics. The FWA-660 has a place reserved for an optional slim-type 2.5" IDE HDD. It is FCC and CE compliant.

Specifications

Processor System	CPU	Intel Celeron	
	Max. Speed	566 MHz	
	L2 Cache	128 KB	
	Chipset	Intel 815E	
	BIOS	Award 4 Mb Flash	
Memory	Technology	PC-133 SDRAM	
	Max. Capacity	512 MB	
	Socket	144-pin SODIMM	
Ethernet	Interface	10/100Base-TX	
	Controller	Intel 82559ER x 3, Intel 82562ET x 1	
	Connector	RJ-45 x 4	
Drive Bay	2.5" HDD	1 (optional)	
Cooling	Fan	2 (5 CFM each)	
Management	Console	RS-232 x 1	
Miscellaneous	Control	Power switch	
	Indicator	9 LED indicators for 4 LANs and power on the front panel	
	CompactFlash Socket	1	
Adapter Power Requirement	Input	AC/DC 90 ~ 264 V @ 47 ~ 63 Hz, full range	
	Output	40 W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 85 % @ 40 °C (104 °F)	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	250 x 39 x 177 mm (9.8" x 1.5" x 6.9")	
	Weight	1.2 Kg (2.6 lb)	

Dimensions



Unit: mm (inch)

Ordering Information

Part Number	Processor	LAN	AC Adapter	CompactFlash	SDRAM	HDD Drive
FWA-660	-	4	40 W	-	-	-

Packing List

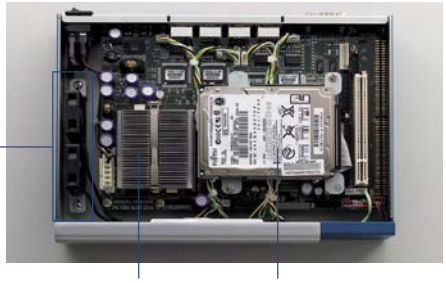
Part Number	Description
1701440155	IDE HDD flat cable 44P
1701100306	Console cable
1961660000	CPU cooler

Accessories

Part Number	Description
1703080101	Power cable wire 7P/Big 4P*2 10 cm
1703100260	USB cable
1700260250	Parallel cable: ASS'Y LPT port 25 cm 25P to 26P 2.0 mm
1700100250	Secondary cable: ASS'Y COM port 25 cm D-SUB 9P to 10P 2.0 mm
1703080160	PS/2 Y cable MINI DIN 16CM
1701160101	VGA cable: ASS'Y VGA 10 cm D-SUB 15P to 16P 2.0 mm
1701440350	Flat cable 44P 35 cm Gray IDC44P/IDC44P/IDC44P
1701440500	Flat cable 40P 50 cm Gray IDC40P/IDC40P/HOUSING44P
1700081401	Cable Ethernet cross over 8P to 8P 140 cm

9 LED indicators (Power x 1, LAN x 4)

Two 5-CFM fans located next to the CPU for best ventilation



Intel Celeron CPU 2.5" IDE HDD space

RS-232 console port Four LAN ports

Removable cover allows easy maintenance and software upgrades

CompactFlash socket SDRAM socket

SG-1003

Tabletop Internet Security Platform with 3 Rear LAN Ports

CE FCC

Features

- Low power SiS 550 200MHz processor
- Compact fanless Firewall/VPN platform for SOHO
- Three 10/100 Mbps Ethernet ports for LAN, WAN, and DMZ

Introduction

A compact fanless Security Gateway, the SG-1003 is specifically designed for Internet secure connectivity and is suitable for the SOHO Firewall/VPN. Designed with the SiS550 200 MHz processor, it has low power consumption that can meet the requirements needed for SOHO Firewall/VPN appliances. The system supports a CompactFlash used for installing OS and Firewall/VPN applications, which prevents service disruption caused by hard disk mechanical/magnetic failures. In addition, the SG-1003 can support system memory up to 512 MB SDRAM. The SG-1003 offers three 10/100 Mbps auto-sensing Fast Ethernet ports for WAN, LAN, and DMZ connections.

Specifications

Processor System	CPU	SiS 550	
	Max. Speed	200 MHz	
	L2 Cache	8K	
	BIOS	Award 256 KB Flash	
Memory	Technology	PC-133 SODIMM	
	Max. Capacity	512 MB (Default 128 included)	
	Socket	144-pin SODIMM	
Ethernet	Interface	10/100 Base-TX	
	Controller	Realtek 8139CL x 3	
	Connector	RJ-45 x 3	
Management	Console	RS-232 x 1	
Storage		CompactFlash Socket Type I/II x 1	
Adapter Power Requirement		AC/DC power adapter, DC 5V input	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 75 °C (-4 ~ 167 °F)
	Humidity	5 ~ 95 % @ 40 °C, non-condensing	5 ~ 95 %
Physical Characteristics	Dimensions (W x H x D)	228 x 44 x 146 mm (9" x 1.7" x 5.75")	
	Weight	1.2 Kg (2.6 lb)	

Ordering Information

Part Number	Description
SG-1003	SOHO Security Gateway with 3 LAN