FWA-1214

Robust Industrial Network Appliance with x7433RE/x7835RE Intel® Atom® Processors for OT Network Security

Features

- Intel® Atom™ x7433RE / x7835RE Processors
- 1 x DDR5 4800MT/s SODIMM Up to 16GB
- 4 x 1GbE RJ45 ports with 1 pair bypass
- Up to 2 x 1 GbE SFP or RJ45 ports
- Redundant 12~48V DC power input
- Expandable RF carrier for 2 LTE / 5G modules
- Wide temperature -40~60°C, IP40

Specifications

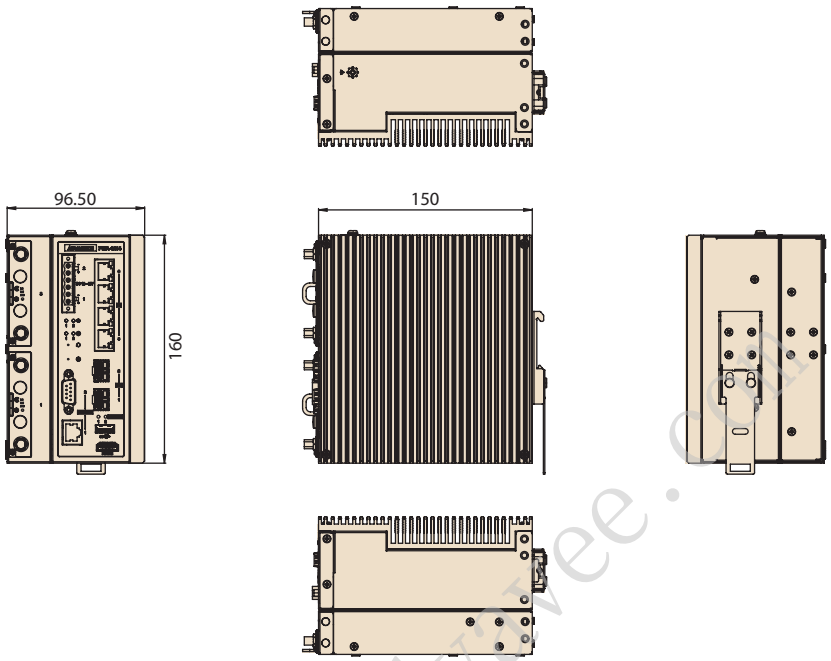
System P/N		FWA-1214LRI-4CA1R	FWA-1214CRI-4CA1R	FWA-1214FRI-8CA1R
Form Factor		DIN-Rail		
Processor System	Processor	x7433RE	x7433RE	x7835RE
	Core Count	4	4	8
	Base Frequency	1.5 GHz	1.5 GHz	1.3 GHz
	BIOS	AMI UEFI		
Virtualization		Intel® VT-X, VT-D		
Memory	Technology	DDR5		
	Max. Capacity	Maximum 16 GB, default installation 8 GB		
	Socket	SODIMM		
	ECC Support	In-Band ECC		
Networking	Controller	Intel i210		
	1 GbE	4 x 1 GbE RJ45	6 x 1 GbE RJ45	4 x 1 GbE RJ45 2 x 1 GbE SFP
	LAN Bypass	1 pair		
Expansion Slot	M.2 (Except SSD)	Option		
	SIM Socket	Option		
Storage	M.2	M.2 2242, M key, SATA SSD, default installation 64 GB		
	eMMC	Option by project		
I/O	Console	1 x RJ45 type console	1 x RJ45 type console	1 x RJ45 type console 1 x D-sub type console
	USB	1 x USB 3.0		
	LED Indicator	2 x Power LED, 2 x Software-defined LED		
	Display	1 x HDMI port		
	Button	1 x Reset button, 1 x Software-defined button		
TPM	TPM2.0	On board		
Power Supply	Power Type	Terminal Block		
	Watts	60 W (Optional power adapter not included with FWA-1214 certification)		
	Input	Dual DC: 12~48V		
	Connector	6P terminal block		
Environment	Operating Temperature	-40 ~ 60 °C (-40 ~ 140 °F) (0.7m/s air flow and not including power adapter)		
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F), 60 °C@95% Non-Condensing Humidity		
	Vibration Resistance (Operation)	5-500 Hz, 1 Grms, 3 axes, 1 hr/per axis		
	Shock Protection (Operation)	10 G, 11 ms		
Cooling		Fanless		
Mechanical	Metallic Material	SGCC & Aluminum		
	Mounting	DIN-Rail		
	Dimensions (W x H x D)	160 x 96.5 x 150 mm (6.3" x 3.8" x 5.9") w/ NMC-R0DK 160 x 66.2 x 150 mm (6.3" x 2.6" x 5.9") w/o NMC-R0DK		
	Weight (G.W.)	2.5kg		
OS Support		Linux		
Advantech S/W Packages		1. ALBPCU 2. Server Monitoring 5. Quick Start Linux Image		
Certification	EMC/Safety	CE, FCC, CB, UL		

https://advavee.com

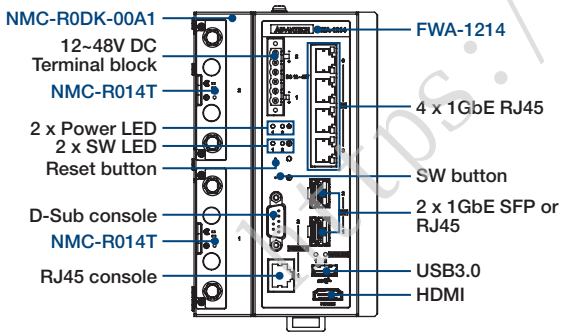
All product specifications are subject to change without notice.

Dimensions

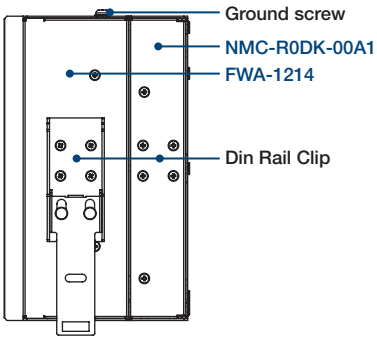
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part Number	Processor	DDR5 slot	Storage slot	LAN Port			USB3.0	Console	HDMI	PSU
				1G RJ45	Bypass	1G SFP				
FWA-1214LRI-4CA1R	x7433RE	8 GB	64 GB	4	1	0	1	1	1	Option
FWA-1214FRI-8CA1R	x7835RE	8 GB	64 GB	4	1	2	1	2	1	Option
FWA-1214CRI-4CA1R	x7433RE	8 GB	64 GB	6	1	0	1	1	1	Option

Packing List

Part Number	Description	Quantity
1700020691-01	Console cable D-SUB 9P(F)/RJ45 220cm	1
1652001524	TERMINAL BLOCK 6P 5.00mm Female 90D	1
1950027608T050	DIN RAIL 160H Holder U for FWA-1214	1
1930008529	Screw M3*4.0L for DIN RAIL Holder	4

Optional Accessories

Part Number	Description
96PSA-A60W24T2-3	60W power adaptor
1702002600	Power cord 3P 180 cm, USA
1702002605	Power cord 3P 180 cm, Europe
1700032693-11	Power Cord 3P 183cm, BSI
1700000237	Power cord 3P 180 cm, JP
1700009652	Power cord 3P 180 cm, China
NMC-R0DK-00A1	RF carrier
NMC-R014T-12A1	LTE RF module kit

https://advwee.com

FWA-1214

Robust Industrial Network Appliance with x7433RE/x7835RE Intel® Atom® Processors for power plant and substation

Features

- Intel® Atom™ x7433RE / x7835RE Processors
- 1 x DDR5 4800MT/s SODIMM up to 16GB
- 4 x 1GbE RJ45 ports with 1 pair bypass
- Up to 2 x 1 GbE SFP or RJ45 ports
- Redundant 12~48V DC power input
- Expandable RF carrier for 2 LTE / 5G modules
- Wide temperature -40~60°C, IP40

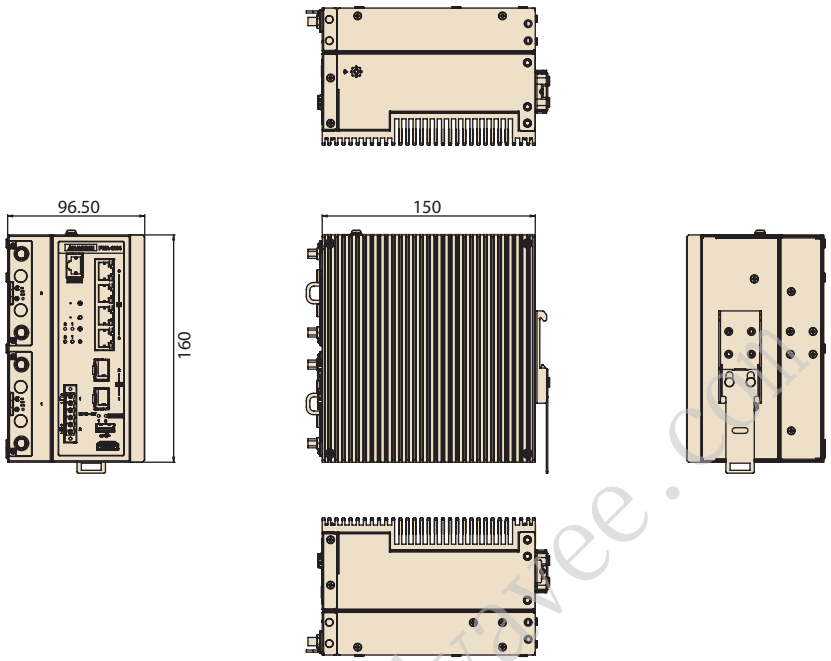
Specifications

System P/N		FWA-1214CRP-4CA1RU	FWA-1214FRP-8CA1RU
Form Factor		DIN-Rail	
Processor System	Processor	x7433RE	x7835RE
	Core Count	4	8
	Base Frequency	1.5 GHz	1.3 GHz
	BIOS	AMI UEFI	
Virtualization		Intel® VT-X, VT-D	
Memory	Technology	DDR5	
	Max. Capacity	Maximum 16 GB, default installation 8 GB	
	Socket	SODIMM	
	ECC Support	In-Band ECC	
Networking	Controller	Intel i210	
	1 GbE	6 x 1 GbE RJ45	4 x 1 GbE RJ45 2 x 1 GbE SFP
	LAN Bypass	1 pair	
Expansion Slot	M.2 (Except SSD)	Option	
	SIM Socket	Option	
Storage	M.2	M.2 2242, M key, SATA SSD, default installation 64 GB	
	eMMC	Option by project	
I/O	Console	1 x RJ45 type console	1 x RJ45 type console
	USB	1 x USB 3.0	
	LED Indicator	2 x Power LED, 2 x Software-defined LED	
	Display	1 x HDMI port	
	Button	1 x Reset button, 1 x Software-defined button	
TPM	TPM2.0	On board	
Power Supply	Power Type	Terminal Block	
	Watts	60 W (Optional power adapter not included with FWA-1214 certification)	
	Input	Dual DC: 12~48V	
	Connector	6P terminal block	
Environment	Operating Temperature	-40 ~ 60 °C (-40 ~ 140 °F) (0.7m/s air flow and not including power adapter)	
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F), 60 °C@95% Non-Condensing Humidity	
	Vibration Resistance (Operation)	5-500 Hz, 1 Grms, 3 axes, 1 hr/per axis	
	Shock Protection (Operation)	10 G, 11 ms	
Cooling		Fanless	
Mechanical	Metallic Material	SGCC & Aluminum	
	Mounting	DIN-Rail	
	Dimensions (W x H x D)	160 x 96.5 x 150 mm (6.3" x 3.8" x 5.9") w/ NMC-R0DK 160 x 66.2 x 150 mm (6.3" x 2.6" x 5.9") w/o NMC-R0DK	
	Weight (G.W.)	2.6Kg	
OS Support		Linux	
Advantech S/W Packages		1. ALBPCU 2. Server Monitoring 5. Quick Start Linux Image	
Certification	EMC/Safety	CE, FCC, CB, UL	
	Others	IEC-61850-3, IEEE-1613	

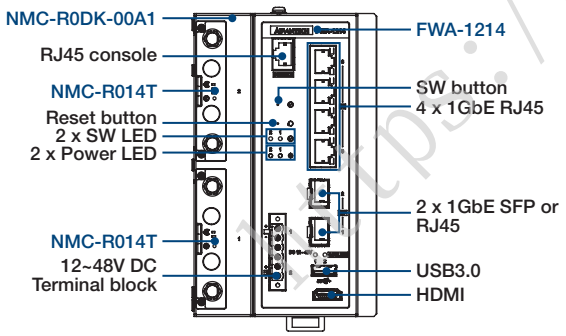
https://advavee.com

Dimensions

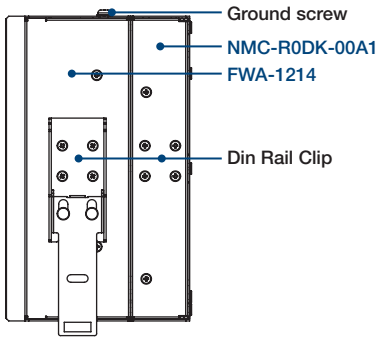
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part Number	Processor	DDR5 slot	Storage slot	LAN Port			USB3.0	Console	HDMI	PSU
				1G RJ45	Bypass	1G SFP				
FWA-1214FRP-8CA1RU	x7835RE	8 GB	64 GB	4	1	2	1	1	1	Option
FWA-1214CRP-4CA1RU	x7433RE	8 GB	64 GB	6	1	0	1	1	1	Option

Packing List

Part Number	Description	Quantity
1700020691-01	Console cable D-SUB 9P(F)/RJ45 220cm	1
1652001524	TERMINAL BLOCK 6P 5.00mm Female 90D	1
1950027608T050	DIN RAIL 160H Holder U for FWA-1214	1
1930008529	Screw M3*4.0L for DIN RAIL Holder	4

Optional Accessories

Part Number	Description
96PSA-A60W24T2-3	60W power adaptor
1702002600	Power cord 3P 180 cm, USA
1702002605	Power cord 3P 180 cm, Europe
1700032693-11	Power Cord 3P 183cm, BSI
1700000237	Power cord 3P 180 cm, JP
1700009652	Power cord 3P 180 cm, China
NMC-R0DK-00A1	RF carrier
NMC-R014T-12A1	LTE RF module kit

https://advawee.com