



■ Features

- Rackmount Rolling Stock Control Box
- Intel® Core™ i7-7600U Processor
- Support 16 x IEEE 802.11af PoE Ports
- Flexible I/O Module Design for Customization
- EN50155 Certification and MIL-STD-810G Compliance
- IP20 chassis

■ Preliminary Specifications

Processor System

CPU	Core™ i7-7600U
Frequency	2.80 GHz
Core Number	Dual-core
BIOS	AMI SPI Flash BIOS
Chipset	SoC

Memory

Technology	DDR4 1866/2133 MHz
Max. Capacity	16 GB
Socket	1 x 204-pin SODIMM

Ethernet

Controller	Intel i210IT x3
Speed	1000 Mbps
Interface	RJ-45
PoE	16 x IEEE 802.3af PoE ports

Storage

Type	SATA
Installation	Removable 2.5" 15mm drive bay x4 (HDD/SSD is not included)
Type	mSATA
Installation	1 x mSATA socket

I/O

Display	DVI-D x 2, resolution up to 1920 x 1200
COM	2 x RS232/422/485 with RI/5V/12V
USB	2 x type A USB 3.0
Digital I/O	8x isolated DIO 5V/ 12V TTL selectable 2x relay out
Antenna	13 x SMA antenna holes (includes GPS +GLONASS)

Expansion

PCIe	6 x Mini-PCIe with 12 SIM card readers
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Cooling

Processor	Passive CPU heatsink
System	Fanless design with corrugated aluminum

Environment

Operating Temperature	-40 ~ 70°C/-40~158°F (Follow EN50155T1)
Storage Temperature	-40 ~ 85°C/-40~185°F
Relative Humidity	5~95%@40°C /104°F

Miscellaneous

Hardware Monitoring	Fintek F81866AD-1 integrated watchdog timer 1~255 level
Internal RTC with Li Battery	Yes

Mechanical

Dimension (W x H x D)	482 x 132 x 282 mm (19" x 5.2" x 11.1")
Weight	7.5 kg
Mounting	Rack mounting

Power

Connector	3-pin terminal block (+, -, ignition)
Input	3-pin terminal block (+, -, ignition), +9~36VDC, ATX mode support ignition on/off and delay Power-on/off by M12 connector

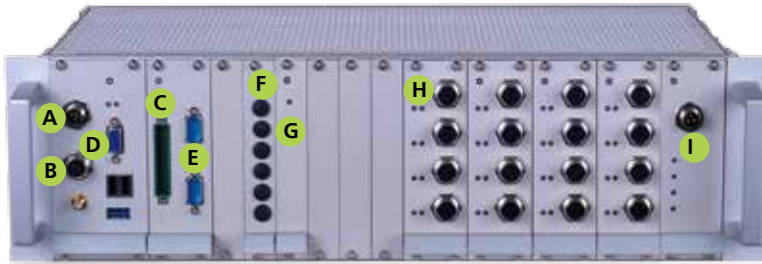
Driver Support

Microsoft Windows	Windows: FES WES7 (WS7E) / W7 Pro SP1 / WE8 STD
Linux	Linux: Redhat Enterprise 5, Fedora 14. Linux Kernel 2.6.18 or later

Certification

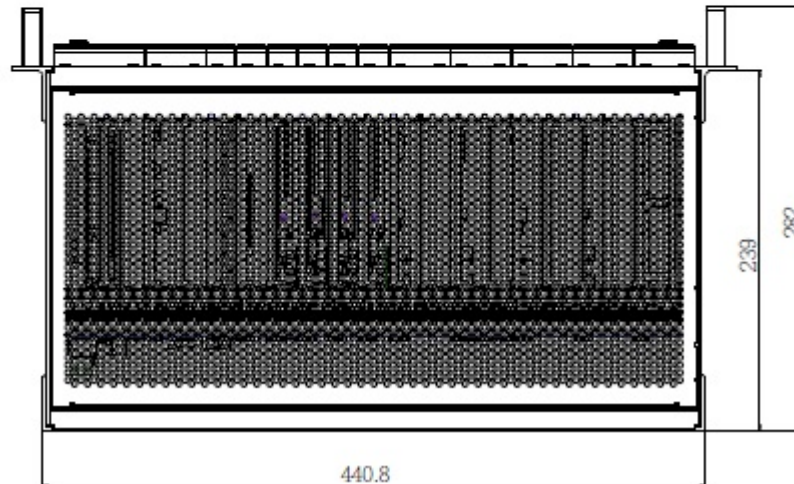
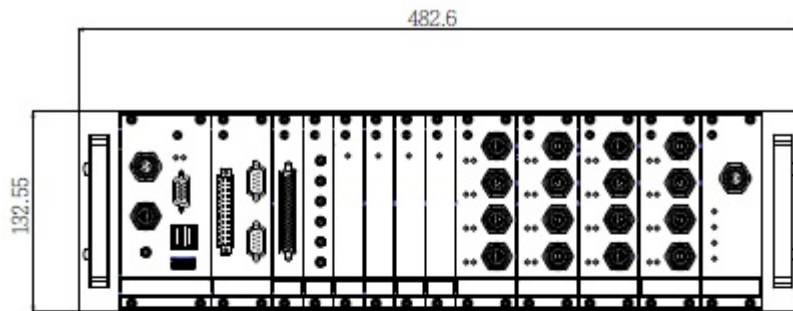
EMC	CE Class A, FCC Class A
Safety	N/A
Compliance	EN 50155 Tx (-40 ~ 70°C), EN50125-3 EN 61373 EN 50155 Class S2 EN 50155 Class C2 EN 50121-3-2, EN 50121-4 EN 45545-2

■ Product I/O View



- | | | |
|-------------------|---------------------------|----------------------------|
| A DC Input | D VGA | G Storage module |
| B GbE LAN | E COM ports | H PoE module (M-12) |
| C MIO | F Mini-PCIe module | I PoE Power |

■ Dimensions 482 x 132 x 282 mm (19" x 5.2" x 11.1")



■ Ordering Information

R8S Fanless Rolling Stock Computer with Intel® Core™ i7-7600U Processor

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