

WCRU Model Comparison Table

STANDARD FEATURES			
Product ID	WV-WCRU-III-00-4C-LPB WV-WCRU-III-00-8C-LPB	WV-WCRU-III-00-4C-LPB-GPS WV-WCRU-III-00-8C-LPB-GPS	WV-WCRU-III-01-18C WV-WCRU-III-01-18CW
Camera Connections	Up to 8	Up to 8	Up to 18
Recording Type	Video: H.264 (1~30 fps) Image: JPEG or JPEG-XR (1~3 fps)	Video: H.264 (1~30 fps) Image: JPEG or JPEG-XR (1~3 fps)	Video: H.264 (1~30 fps) Image: JPEG or JPEG-XR (1~3 fps)
Event Log / Tagging	Yes	Yes	Yes
Power Consumption (Without Camera)	Typical: 17W Max: 19W	Typical: 17W Max: 19W	Typical: 19W Max: 25W
Input Voltage *Refer POE LAN Port Output	2 Pin Industrial Connector 12 ~ 56V	2 Pin Industrial Connector 12 ~ 56V	2 Pin Industrial Connector 48 ~ 160V, Typical: 110V
WAN Port (Expansion)	1x 10/100/1000 Mbps (RJ45)	1x 10/100/1000 Mbps (RJ45)	1x 10/100/1000 Mbps (M12)
No. Of POE LAN Port & Voltage Output	4x POE LAN Port 10/100 Mbps (RJ45) POE Output Follow Input Voltage	4x POE LAN Port 10/100 Mbps (RJ45) POE Output Follow Input Voltage	4x POE LAN Port 10/100/1000 Mbps (M12) (Support RS-232, RS-422, RS-485) Output Is 48V ±5% (IEEE 802.3af)
Storage Capacity	1 Slot (2.5") SSD / HDD	1 Slot (2.5") SSD / HDD	2 Slot (2.5") SSD / HDD
Input & Output Ports (GPIO)	8 GPIO Ports 4 in; 4 out	8 GPIO Ports 4 in; 4 out	8 GPIO Ports 4 in; 4 out
First WLAN Radio	IEEE 802.11a/b/g/n 2x2 Up to 300 Mbps 17dBm	IEEE 802.11a/b/g/n 2x2 Up to 300 Mbps 17dBm	IEEE 802.11n/ac 4x4 Up to 1.733Gbps 20dBm (Only For Model WV-WCRU-III-01-18CW)
SNMP V3	Yes	Yes	Yes
Firmware Upgrade On The Fly	Yes	Yes	Yes
Voltage Surge Protection	Yes	Yes	Yes
Built-in VPN Server	Yes	Yes	Yes
Ext. USB Port	1x USB 2.0	1x USB 2.0	2x USB 2.0
MIC Input (MIC Not Included)	1x MIC Input Port	1x MIC Input Port	1x MIC Input Port
Audio Output	1x Audio Output Port	1x Audio Output Port	1x Audio Output Port
OPTIONS			
Accelerometer	Not Applicable	Not Applicable	Yes
Image Security	Support AES Encipher (JPEG / JPEG-XR)	Support AES Encipher (JPEG / JPEG-XR)	Support AES Encipher (JPEG / JPEG-XR)
Trusted Platform Module TPM	FIPS-140-2 Security (Optional)	FIPS-140-2 Security (Optional)	FIPS-140-2 Security
VGA Display Port	Not Applicable	Not Applicable	Yes
Video Analytic	Not Applicable	Not Applicable	Yes (No. Of Camera Supported May Be Reduced, Depending On Analytic Option)
GPS	Not Applicable	Yes	Yes
Second WLAN Radio	Not Applicable	Not Applicable	IEEE 802.11a/b/g/n/ac 2x2 (Wave 2)
3G / LTE Support	External Option	External Option	External Option
Factory Reset Button	Not Applicable	Not Applicable	Yes

Design and specifications are subject to changes without prior notice due to engineering improvement.
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*Wireless range and performance may vary with environment.

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The Wireless Camera Recording Unit third generation (WCRU-III), encased in a ruggedized casing to meet an IP54 ratings for protection against dust and water, is specially designed for the transportation industry. It meets the vibration, impact and shock resistance requirement under stringent railway standards and is certified for use in trains. Capable of uninterrupted monitoring and recording, and featuring a wide operating temperature of -25°C to +70°C, WCRU-III is also ideal for use in police cars, bus and boats.

RFNet takes pride in perfecting the system design. We innovate, design and engineer, pushing performance to its limit. With 2 slots 2.5” storage and connections of up to 18 cameras, the WCRU-III supports daily operational needs such as live view and playback from any location at any time. The WCRU-III intelligently detects Wi-Fi signal and automatically performs data uploading when the vehicle returns to the terminal. Bringing it further, firmware updates can be automatically done through the backend management system, or schedule a convenient time for the updates to roll in.

WCRU-III is engineered to excel in harsh and critical environment, making it one of the most ideal surveillance system on the market.

WCRU-III-00 Series

RJ45 Connector Model

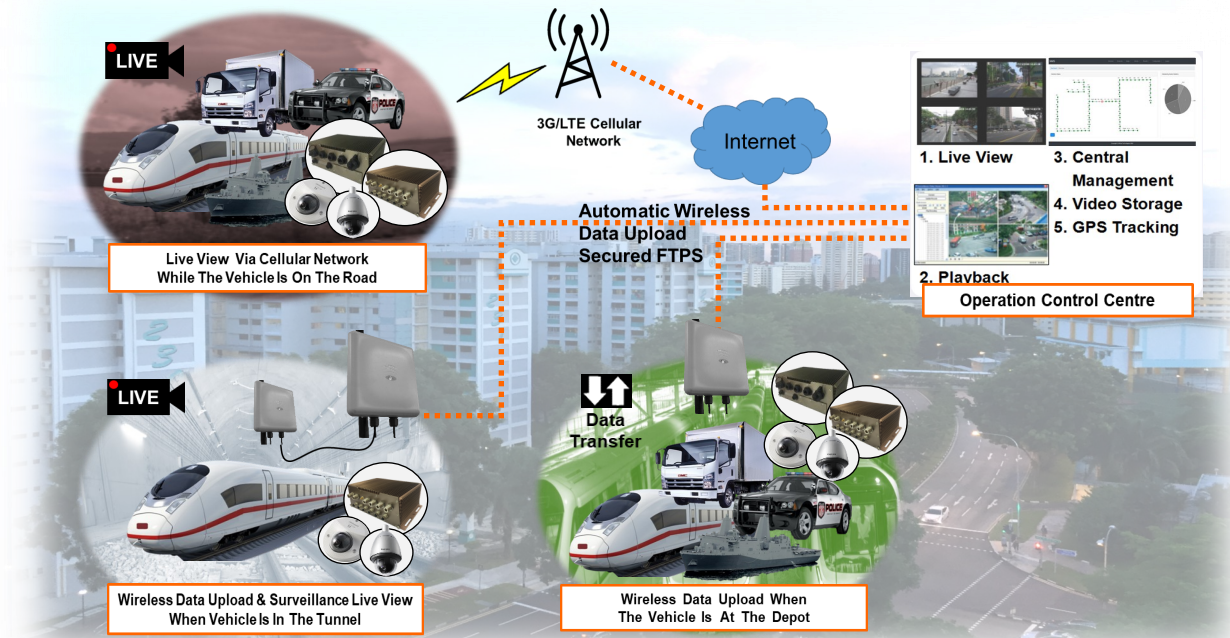
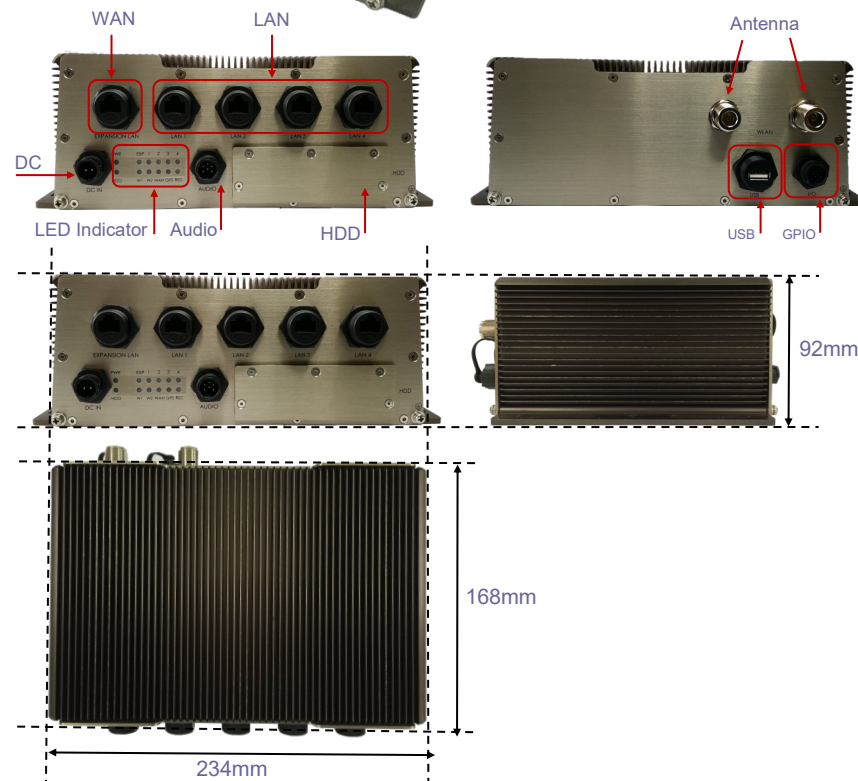
WCRU-III-01 Series

M12 Connector Model

Ruggedized Wireless CCTV Solution

In-Train Wireless CCTV Solution

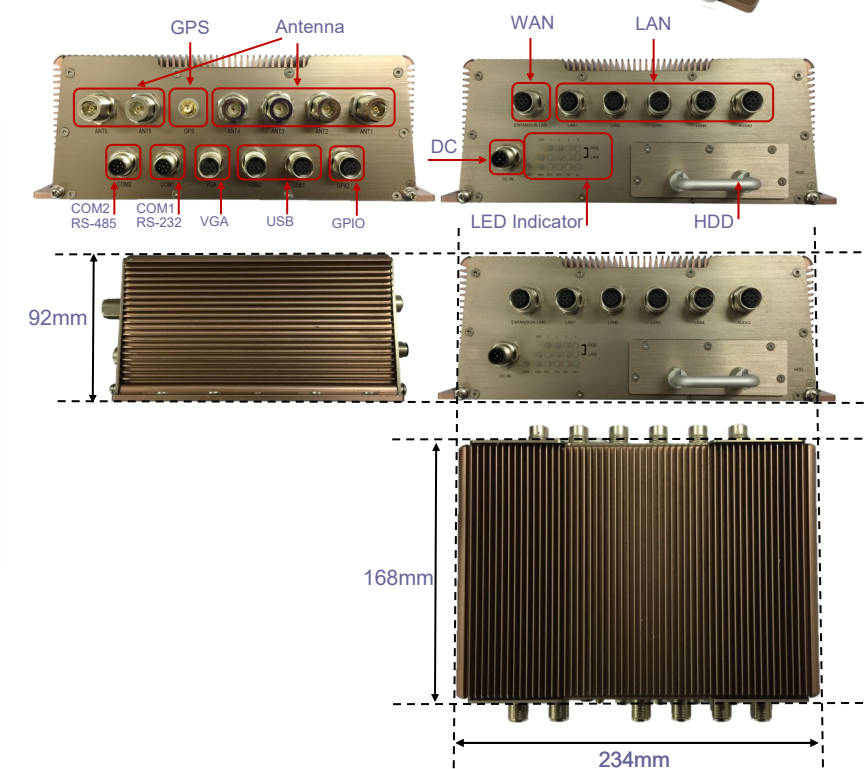
Interfaces



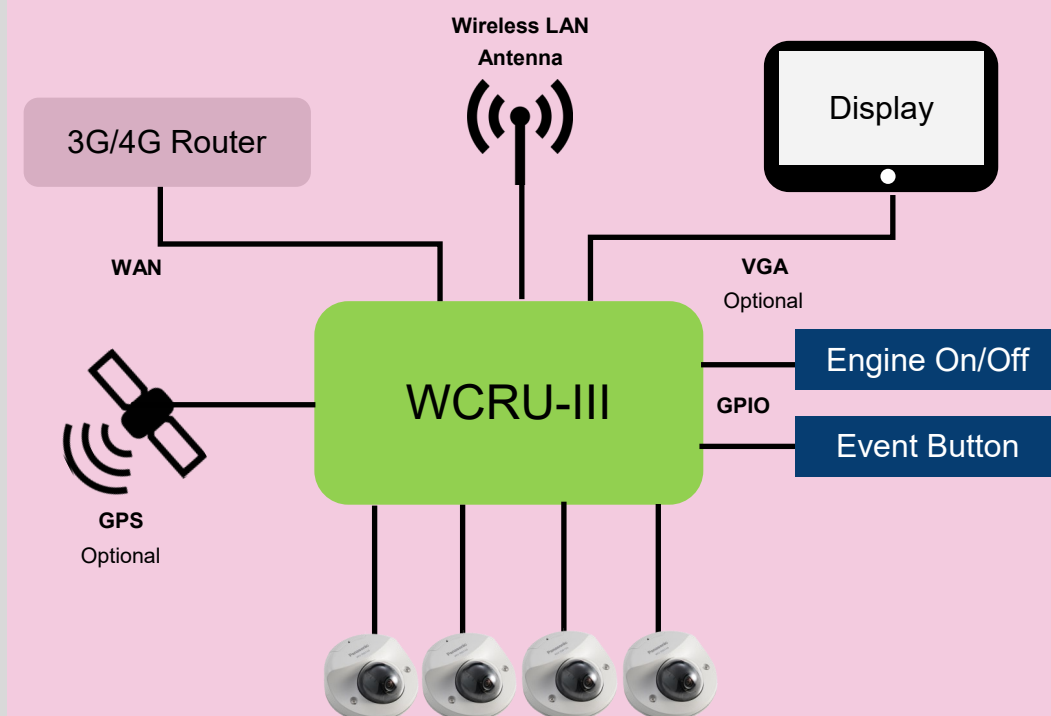
The WCRU is accessible via Cellular network (3G / 4G router) for checking the status, camera video stream and all video data stored in WCRU. Once vehicle (with WCRU installed) comes back to station or depot where WiFi access points are installed, all recorded data can be automatically uploaded to a central recording system. Furthermore, WCRU can be integrated with GPS (optional), and combine with video data for future played-back.

This application is particularly useful for mobile surveillance application such as police patrol car. RFNet also provides RWAS, Remote Wireless Access Software for secured live view (using secured VPN communication data link), and playback software for video data stored in central storage. Our Network Management Software (NMS) monitors all equipment status and remotely configures parameter, updates firmware, etc.

Interfaces



General Connection Diagram



KEY FEATURES

- Supports Recording of up to 18 cameras (Depends On Model), with 24x7 continuous recording
- Recording Format In JPEG / JPEG-XR Images (1-3fps), or H.264 Video (1-30fps)
- Supports Local, Network-Based And Remote Storage
- Integrated With Solid-State Storage For Video Recording
- Provides User Authentication With Password Protection
- Automatic Files And Disk Space Management To Ensure Continuous Recording, Even After Restart
- Wireless LAN Radio For Communication Between Vehicles And Base Stations
- Wireless LAN Operating Modes Include Access Point, Bridge Client, Repeater
- Supports Wireless Fast Data Transfer And Fast Seamless Roaming
- Built-in Accelerometer (Depends On Model)
- Wireless LAN Radio Supports Up To 1.733 Gbps Data Rate (Depends On Model)
- QoS And Bandwidth Management:
 - Able to Limit The TCP/IP Data Bandwidth
 - Supports IEEE 802.11e QoS
- Support WPA / WPA2-Personal, WPA / WPA2-Enterprise, WEP, And 802.1x Radius Authentication
- Management:
 - Supports SNMP v3 (Read And Write)
 - Supports Firmware Upgrade On The Fly
 - Supports Automatic Scheduled Firmware Upgrade Through Network Management Software
- Industrial Grade With Wide Operating Temperature:
 - Asia : 0°C to +70°C
 - Europe : -25°C to +70°C

WIRELESS LAN / NETWORK

- Operating Frequencies : 2.400-2.4835 GHz and/or 5.150-5.850 GHz
- Security : Government-Grade Security Support
- Authentication : Crypto-Authentication Method

INTERFACE AND GENERAL

- Hardware Reset : Pinhole
- Radio Ports : WiFi: N(F); GPS: SMA (F)
- Power LED / Recording LED : Power Up Status / Recording Status
- General Input Output Ports : 4 Input And 4 Output. Can be Pre-configured To Detect Engine On/Off Status, Events, or Sensor Status
- Dimension LxWxH : 234 x 168 x 92mm (Exclude Mounting)
- Weight : 3.4KG (Depends On Model)

FUNCTION

- Management : Web Configuration, SSH, SNMP v3, File Based Configuration
- Web Configuration : Recording Type, Frame Rate, Live View, WLAN Setting, Recording On/Off, Export Video Through USB Port
- Virtual Private Network (VPN) : Built-in VPN Client and Server
- File Transfer Protocol (FTP/FTPS): Supports FTP Upload Up To 3 FTP Server Addresses

ENVIRONMENT AND RELIABILITY

- Compliance / Regulatory : CE, iDA, RoHS
- Storage Temperature : -40°C to +80°C
- Humidity : 10% to 90% Max, Non-Condensing
- EN50155 : EN 50121-3-2 EMC/EMI, EN 61373 Shock Vibration, EN 60068-1/2/30 Climatic