



Overview

The WCRU-III-Gateway is a compact and ruggedized Gateway Unit housed in a IP54 metal casing and supports a wide range of operating temperature from -25°C to +70°C. It meets the vibration, impact and shock resistance requirement under stringent transportation standards, and is certified to Train Standard.

Key Features

Interface Gateway

- Ethernet Gateway between CCTV Recorder and Transmission Medium (Wired or Wireless)
- Simple way to transmit I/O data between any two industrial networks
- Additional parameter data supported (depending on network combination)

Management

- Supports SNMP V3 (read and write)
- Supports firmware upgrade on the fly
- Provides user authentication with password protection

Multiple Ports

- 4x Gigabit LAN Port + 1x Gigabit WAN Port
- 8 x GPIO Port (4 in, 4 out)
- With kinds of ports, like LAN, I/O, USB, the Gateway can connect with various of accessories, such as CCTV NVR, Display, panic button Public Address system for information transfer from site to Control Centre

Suitable for Train Usage

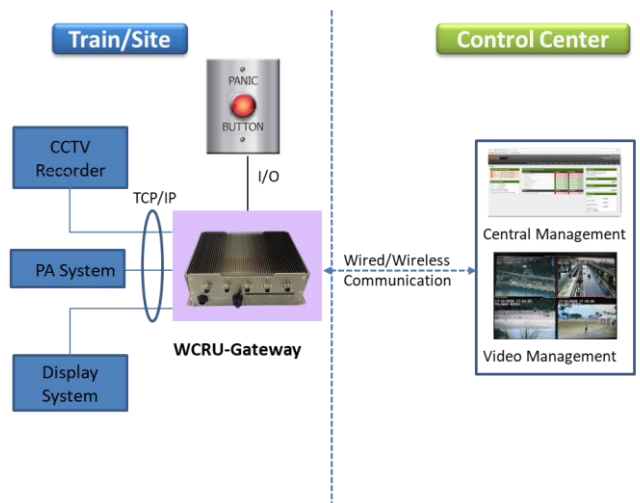
- Industrial grade with wide operating temperature range: Asia: 0°C to 70°C; Europe: -25°C to 70°C
- Certified to In-Train EN50155 and IEC61373 standard

Optional Features

- Supports network based storage for data and video.
- Optional security features such as Encrypted Drive, Security Key (FIP-140).
- Provides wireless fast data transfer and fast seamless roaming with QoS and data Bandwidth Management

Application

- Data Acquisition and Communication Tool
- Interface between Recorder and Transmission medium (Wired or Wireless) to Central Command Centre
- Gateway between multiple devices within Train



The WCRU-III-Gateway, operating as communication gateway of the vehicle, enables Access Control Security with User ID and Password with audit trail to remote stations for any kinds of applications in the train which can be connected via its customizable communication suite. Multiple devices can directly be attached to the WCRU-III-Gateway by using the integrated 5 Ethernet and GPIO Ports

The router software is based on well proven components and standard communication protocols. The device is administrated via web browser or command line.

Our WNCS-233 NMS can be used to remotely manage the WCRU-III-Gateway, such as remote configuration to interface with customer programs, firmware upgrade-on-the-fly, central device configuration, heartbeat monitoring, etc. The WCRU-III-Gateway is qualified for operating under harsh environmental conditions defined by EN 50155.

The WCRU-III-Gateway offers wide range of Optional features such as secured wireless fast data transfer and data bandwidth management.

Model

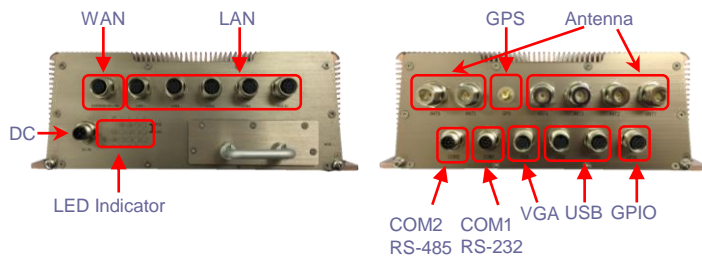
WV-WCRU-III-01-GWW

- Wireless Radio IEEE802.11a/n/ac 4x4 MIMO
- Wireless Radio IEEE802.11a/b/g/n/ac 2x2 MIMO (Optional)
- 4x Gigabit LAN Port + 1x Gigabit WAN Port

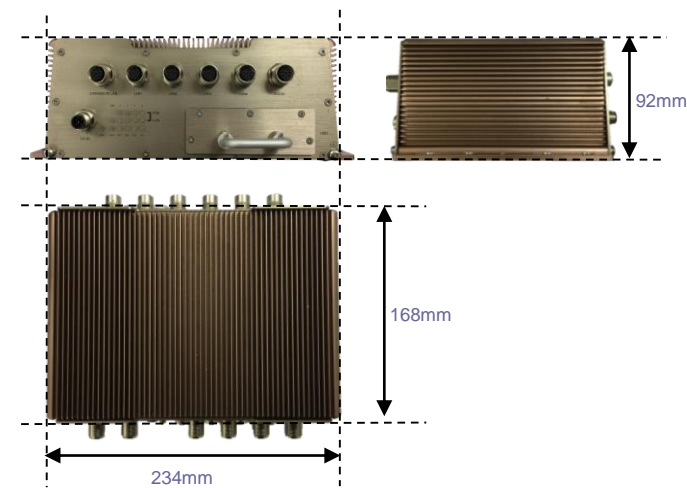
WV-WCRU-III-01-GW

- 4x Gigabit LAN Port + 1x Gigabit WAN Port

Interfaces



Dimension



General	
Dimension LxWxH	234mm x 168mm x 92mm (Excluding Mounting)
Weight	4.1 KG
Power Consumption	Typical: 15.25W Max: 17W
Compliance	CE, iDA, RoHS

Environmental and Reliability	
IP Rating	IP 54
Operating Temperature	-25°C to 70°C
Storage Temperature	-40°C to +80°C
Humidity	10%~90% Max Non-Condensing
EN50155	EN 50121-3-2 EMC/EMI EN 61373 Shock Vibration EN 60068-1/2/30 Climatic
Regulatory	CE

Interface	
Power IN	2 Pin Industrial Connector Typical: 110V DC (48V ~ 160V DC)
WAN Port (Expansion Port)	1x 10/100/1000 Mbps WAN Port M12 Connector
LAN1 – LAN4 Ports (PoE)	4x 10/100/1000 Mbps LAN Port (Software Controllable Power On/Off)
USB (Host)	2x USB 2.0
HW RESET Button	Pinhole
RF Ports	WiFi: N(F) x 6 (4 For WLAN-1, 2 For Optional WLAN-2) GPS: SMA (F) (Optional)
Power LED	Power Up Status
Display Output	VGA (Optional)
Storage Type (Form Factor)	SSD / HDD (2.5") 2 Slot
Input And Output Ports	8 x GPIO Port (4 Input And 4 Output)
MIC Input (MIC Not Included)	1 x Mic Input Port
Audio Output	1 x Audio Output Port

Network Security & Management	
Firewall	Stateful Firewall
DHCP	- Built-in DHCP Server and Client - Support IP Address Reservation
VPN	Built-in VPN Server and Client
File Uploader	- Support Secured FTP, FTPS, SFTP Transfer - Support Up To 3 FTP Server Address
Management	Web Configuration, SSH, SNMP V3, File Based Configuration
High Availability	Support Cluster (Two Set) Virtual IP
Generic Routing Encapsulation	Support GRE Tunneling

Wireless LAN / Network	
Wireless LAN 1 Standards & Data Rate (Varies According To Model)	MiMo Radios: IEEE 802.11a/n/ac 4x4 – Up To 1.75Gbps
Wireless LAN 2 Standards & Data Rate (Optional) (Varies According To Model)	MiMo Radios: IEEE 802.11a/b/g/n/ac 2x2 – Up To 867Mbps
WLAN Operating Mode	Infrastructure, Repeater And Client
Operating Frequencies	5.150-5.875 GHz
Operating Channels	Supported Channels Will Depend On The Country.
Security	Government-Grade Security Support, Including WEP, TKIP / AES / WPA And WPA2
Trusted Platform Module TPM	FIPS-140-2 Certified (Optional)
CryptoAuthentication	Ensures Things And Code Are Real, Untampered, And Confidential

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