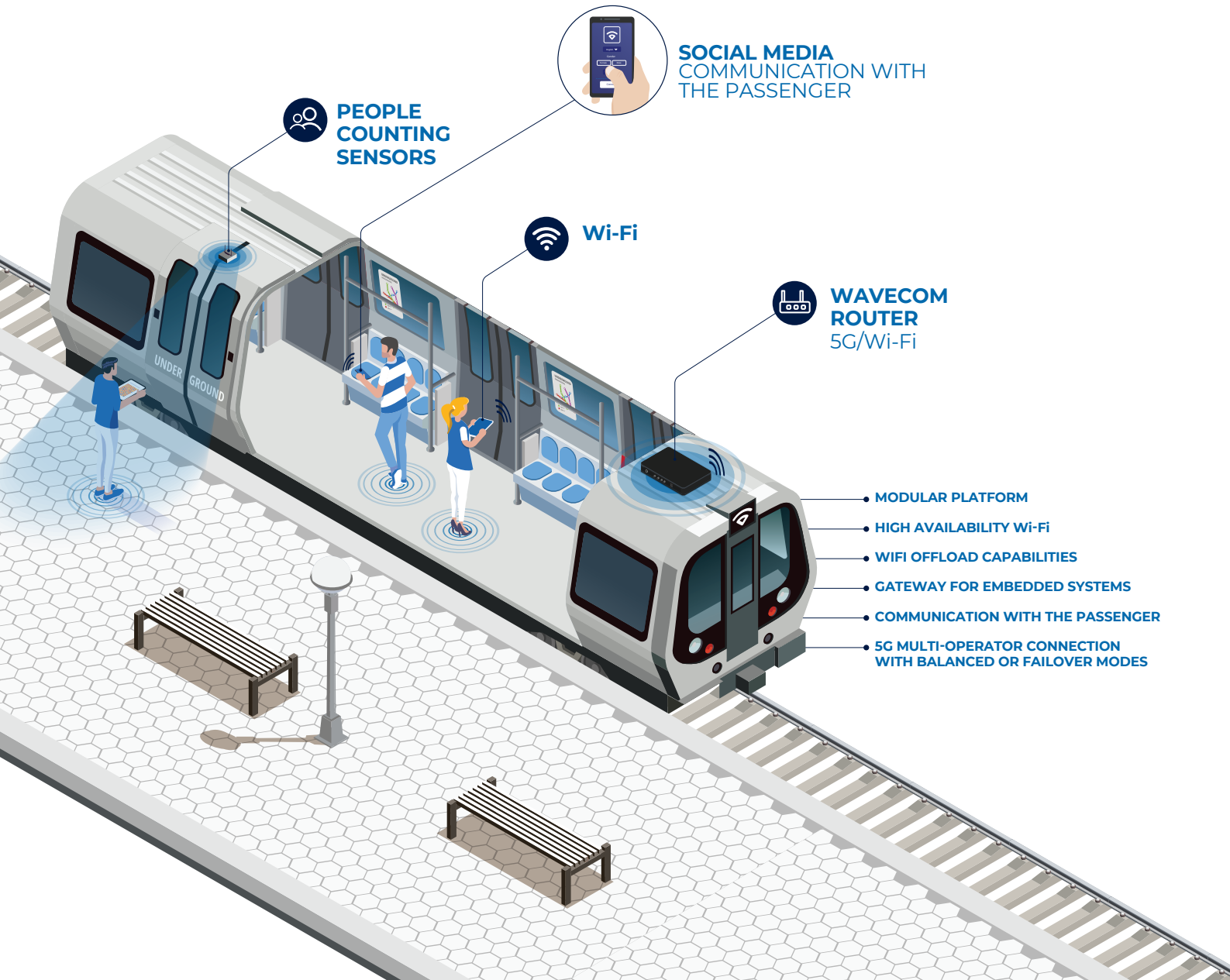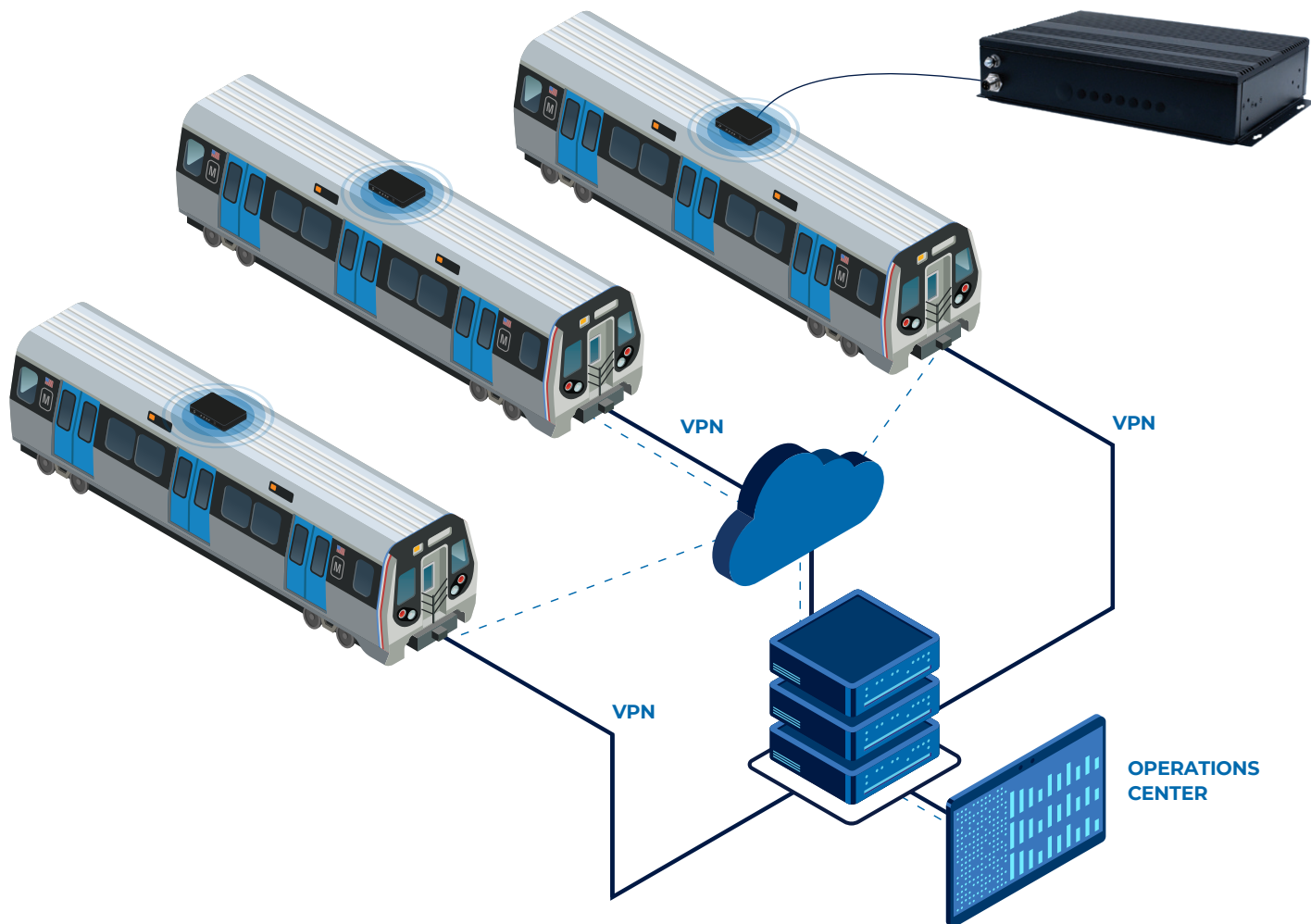wavecom
Technologies

CONNECTED
RAIL

HARDWARE WaveOnRail
SOLUTION

- **CPU: Intel Atom® x6425E, quad core @ 1,8 GHz**

- **RAM: 8GB DDR4**

- **Storage: 64GB industrial grade eMMC flash**

- **Cellular: Up to 2x 5G Modem (R15 NSA/SA up to 2.4Gbps)**

- **WiFi: Up to 2x IEEE802.11ac (dual-band 2.4/5GHz)**

- **GNSS: GPS, GLONASS, Galileo and BeiDou**

- **Ethernet: 3x 10/100/1000 Mbps Gigabit Ethernet ports, M12 8pin X-coded**

- **2x Serial RS232/422/485 (upon request)**

- **Digital IOs (upon request)**

- **Input Voltage: 24/48VDC and 72/110VDC**

- **RTC with 6-day retention time (upon request)**

- **PoE+ capability on 2x GbE ports for PSE (upon request)**

- **IP40 Fanless box**

- **Operating temp: -40 °C to +70 °C,**

- **Storage temp: -40 °C to +85 °C**

- **Certifications: EN50155: 2017 including EN45545-2 Fire & Smoke, EN50121-3-2 EMI/EMC, EN61373 Shock & Vibrations (Body Mount Class B), EN60068-2 Climatic. CE(EN62368-1 for safety), FCC part 15**

CONNECTED RAIL

PEOPLE COUNTING SENSORS

SOCIAL MEDIA
COMMUNICATION WITH THE PASSENGER

Wi-Fi

WAVECOM ROUTER
5G/Wi-Fi

- MODULAR PLATFORM
- HIGH AVAILABILITY Wi-Fi
- WIFI OFFLOAD CAPABILITIES
- GATEWAY FOR EMBEDDED SYSTEMS
- COMMUNICATION WITH THE PASSENGER
- 5G MULTI-OPERATOR CONNECTION WITH BALANCED OR FAILOVER MODES

VPN

VPN

VPN

OPERATIONS
CENTER

COMMUNICATIONS
SYSTEM

SOFTWARE
WaveOnRail
SOLUTION

MANAGEMENT

- **Local:** RS232 serial (DB9), SSH and Web GUI
- **Remote:** SSH and Web (HTTP and HTTPs), TFTP, SNMPv1, SNMPv2, SNMPv3
- **Centralized:** Via Wavecom IoT Manager

NETWORK

- **Gateway Features:** DHCP Server & relay, NAT, PPPoE, Link Aggregation (IEEE 802.1ad)
- **IP Stack:** IPv4 and IPv6 simultaneously
- **VLAN:** 802.1Q (until 256): Management VLAN. Access and Trunk Modes,
- **Other:** QoS support (WMM/802.1e) for real-time data, video and voice VPN client for secure connections (OpenVPN, IPSec, DWVPN) – Encryption AES128/256, Hashing MD5, PKI certificates

SECURITY

- **Encryption:** 64-bit and 128-bit WEP encryption, WPA/WPA2 Personal and Enterprise
- **Authentication:** TKIP, AES and IEEE 802.1x/RADIUS based authentication
- **Other:** SSID broadcast control MAC address control list Firewall for MAC, IP, protocol and port filtering

wavecom
Technologies

About Us

Wavecom has been in the field for 20 years with a solid know-how and expertise in wireless and IP-based systems and applications.

We understand about the integrators' challenges and our goal is to equip them with the indispensable technology, insights, advice and tools to help them to achieve their most pressing objectives.

With our capacity for innovation and knowledge of integrator's activity, we can improve people's quality of life through the products we manufacture.

wavecom@wavecom.com

www.wavecom.com

+351 234 919 190

NP 4457:2007, ISO 9001, ISO 14001 e ISO 45001:2018

COTEC
REDE PME
inovação