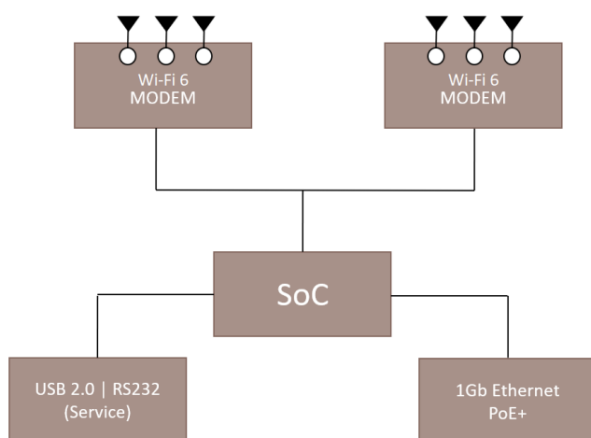


SENCITY® RAIL ACTIVE IN-CARRIAGE

1499.00.0016

Properties

- Contains dual band 3x3 MU-MIMO Wi-Fi 6 radios connected to 6 integrated antenna elements
- Supports up to 512 clients per module (1024 clients per access point)
- Flush wall/ceiling mounting and compact form factor
- Certified for Railway standards EN 50155, EN 45545-2 and NFPA-130
- Compact form factor allows easy deployment of Wi-Fi systems on trains, no RF cables required
- Embedded GNSS antenna with integrated low-noise amplifier

**Diagram**

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Communication services		
Radio Module:	Compex© WLE3000HX	
Supported Bands	Wi-Fi	802.11a/n/ac/ax, 3x3 MU-MIMO (4920-5850 MHz) 20/40/80/160 MHz Channels 802.11b/g/n/ax (2412-2472 MHz) 20/40 MHz Channels

System data	
Processor	QorIQ® T1023 1200 MHz Dual-Core CPU
Memory	1GB RAM
Storage	128MB Flash
Operating system	Linux OS OpenWrt
Ethernet	1x 10/100/1000BaseT(X), M12 X-coded
Power input	PoE+ Class 4 (802.3at)
Power consumption	20 W typ., 25 W max.
Encryption	OPEN, AES, TKIP, WPA, WPA2-PSK/EAP, WPA3-PSK/EAP, mixed modes, OWE
Security	stateful firewall with multi-level client isolation
Note	A reset switch available on the connector side

Mechanical data	
Weight	1.2 kg
Dimensions	99 mm x 289 mm x 69 mm (Height x Width x Depth)
Remarks	Dimensions including mounting points and cooling fins

Environmental data	
Operation temperature	-40 °C ... 70 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Indoor
Ingress protection (IP Rating)	IP66
Flammability rating	EN 45545-2 R24 HL3
Solar radiation	UL 746C, FI

Environmental remarks

Flammability rating: EN45545-2:2020, NFPA-130:2021
 Tested according to ISO 4589-2:2017, NFX 70-100-1:2006, ISO 5659-2:2011.

Environmental tests: EN 50155:2018-05

§13.4.6 EN 60068-2-1:2008-01 Cold temperature test Ab, -40°C, 16h
 §13.4.5 EN 60068-2-2:2008-01 Dry heat test Be +70°C, 16h
 §13.4.7 EN 60068-2-30:2006-06 Damp heat cyclic test Db, +25/55°C, 2 cycles
 §13.4.10 EN 60068-2-11:2000-02 Salt mist test, 96h
 §13.4.11 EN 61373:2011-04 § 8, Cat. 1B Broadband Random Vibration
 §13.4.11 EN 61373:2011-04 § 9, Cat. 1B Increased Random Vibration
 §13.4.11 EN 61373:2011-04 § 10, Cat. 1B Mechanical shock
 §13.4.12 Ingress Protection EN 60529:2014-09 IP5X, IPX4

MTBF approx. 450.000 h

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Additional Information

This Product is compliant with the following certifications:

Directive (EU) 2016/797
EN 50155 (IEC 60571)
EN 45545-2 (HL 1 to HL 3)
EN 61373 (Category 1, Class B)
RED – 2014/53/EU
EMC
radio spectrum
health & safety
USA FCC Title 47 CFR Part 15B
NFPA-130

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