RADWIN TerraBridge 6C00 Series

Wireless Inter-Carriage Link - Data Sheet (RW6000/TB/6C00/F60/ETSI)

RW-6C00-2160

Product Description

RADWIN RW-6C00-2160 provides up to 1Gbps full duplex wireless connectivity between train cars. The product is designed to enable Gbps Ethernet network throughout the train, seamlessly supporting dynamic consist.

Product Highlights

- Radio based on 802.11ad standard in mm-waves unlicensed band
- Capacity of up to 1Gbps full duplex
- Fully outdoor IP-69K
- Minimal footprint, low visual impact
- Fast auto-connect function
- Low latency
- Designed to operate in harsh environment and extreme temperatures
- Easy to connect, operate and maintain

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Product Specifications:

Configuration	
Architecture	Outdoor Unit with embedded antenna
PoE to ODU Interface	Outdoor CAT-5e or CAT-6 via M12 X-coded connector; Maximum cable length: 75m for 2500BaseT
Data Interface	100/1000/2500Mbps Full Duplex RJ45 PoE
Mounting	by 4 screws with flanges or external mounting plate
Radio	
Max Capacity	Up to 1.5Gbps
Channel Bandwidth	2.16GHz
Modulation	BPSK, QPSK (MCS 1-8); Single Carrier
Max Tx Power	Up to 32dBm EIRP
Encryption	AES 128
Latency	Maximum<4 msecond; Average <2 msecond (for 90% load)
Layer 2	Bridge Mode
Management VLAN	Supported
Element Management	IPv4 / IPv6 dual stack; SNMP v3; HTTPS using web browser
Radio Regulation	
ETSI	EN 302 567 V2.1.1 - Operation within the band 57-64 GHz
Mechanical	
ODU Dimensions	12x12x2.25 cm / 4.7x4.7x1 in
ODU Weight	300g / 0.66lb; 440g / 1lb (with mounting plate)
Power	
Power Feeding	802.3af standard PoE
Power Consumption	Up to 12W
Environmental	
Operating Temperatures	-40° to 70°C / -40° to 158°F (Operating) -40° to 85°C / -40° to 185°F (Storage)
Humidity	IP-69K, NEMA-type 4
Safety	
US/CAN (cTUVus)	UL 62368-1, UL 60950-22, CAN/CSA C22.2 62368-1, CAN/CSA C22.2 60950-22
CE/IEC	EN/IEC 62368-1, EN/IEC 60950-22
EMC	
FCC	47 CFR Part15, Subpart B, Class B
CE	EN 301 489-1, EN 301 489-17
CAN/CSA-CEI/IEC	ICES-003: 2017 Issue 6, Class B
AS/NZS	CISPR 32-2015 Class B
Railway	
EMC for railway applications	EN 50121-3-2, EN 50121-4 Class B, EN 50155
Railway applications - Electronic	EN 50155, IEC 60571
Shock & Vibration	EN 61373, EN 50155, IEC 60571
Fire	
Fire Safe Material	EN 45545-2
Reliability	
MTBF	>131,400 Hours for outdoor and rail environment

Ordering Info
Part Number: RW-6C00-2160
Description: RADWIN ICL ODU, with an integrated antenna, supporting 60 GHz ETSI frequency band

Datasheet information can be changed by manufacturer without prior notice

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