Series 5 Network Integrated WAN Radio

Serial connectivity for advanced RF Mesh networks

The Landis+Gyr Series 5 Network Integrated WanGate Radio (IWR) provides a utility's wireless RF mesh network with new capabilities, including remote data collection and end-device monitoring and control. This radio enables full two-way peer-to-peer communication to all devices within the network. Additionally, the Series 5 Network IWR Radio can be used as a radio to directly interface with intelligent end devices such as reclosers, switches, and capacitor banks. It offers additional advanced functionality such as individual message prioritization, automatic network registration, and on-board memory for localized intelligence. Using programmable applets, these radios provide customized control capabilities to distributed devices, improving near real-time monitoring and control functions.

Key Benefits

Interoperability
Integrates with numerous partners and supported devices using common protocols.

Dynamic Routing
Supports independent and intelligent routing by each radio in the mesh network.

Distributed Intelligence
Supports programming at the radio level for near real-time monitoring and control functions.

Data Security
Assures integrity and reliability through encryption security and error-checking algorithms.

Individual Message Prioritization
Allows end devices to interface with other smart grid applications and functions.

Downloadable Code
Provides easily downloaded over-the-air firmware updates.

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Product Specifications

Electrical	
Input Voltage Range	6 to 28 VDC
Current	0.038 – 0.320A
Radio Processing Unit	
RAM Memory	640 KB
FLASH Memory	2MB + 4MB External
Clock Speed	120MHz
Radio	
Communication Protocol	IEEE 802.15.4g (RF Mesh / RF Mesh IP protocol)
RF Frequency Range	902 - 928 MHz
Channel Spacing	• 400 kHz (RF Mesh IP protocol) • 100, 100, 300 kHz (RF Mesh protocol)
RF Data Rate	• 50, 150, 200 kbps (RF Mesh IP protocol) • 9.6, 19.2, 38.4, 115.2, 300 kbps (RF Mesh protocol)

Transmitter	
Output Power	50 mW - 724 mW (peak)
Modulation Type	• IEEE 802.15.4 SUN FSK (Mesh IP) • 2-FSK, 2-GFSK (RF Mesh)
Mechanical	
Enclosure	Extruded Aluminum
Dimensions	4.250" W x 5.770" D x 1.720" H
Weight	1.10 lbs
Operating Temp Range	-40° to 85° C
Storage Temp Range	-40° to 85° C
Regulatory Compliance	
Compliance	• FCC Part 15 • Industry Canada • Anatel

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Let's build a brighter future together.

Landis+Gyr is a leading global provider of integrated energy management solutions. We measure and analyze energy utilization to generate empowering analytics for smart grid and infrastructure management, enabling utilities and consumers to reduce energy consumption. Our innovative and proven portfolio of software, services and intelligent sensor technology is a key driver to decarbonize the grid. Having enabled 9 million tons of CO_2 savings in FY 2024 through our product offerings, Landis+Gyr manages energy better – since 1896. With sales of USD 1.7 billion in FY 2024, Landis+Gyr employs around 6,300 talented people across five continents. For more information, please visit our website www.landisgyr.com.

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