V1.0

neoRead™

7204 High-Performance UHF Reader



OMNIAIR® CERTIFIED
RFID-6C SP-MP-SL Tolling
2022051601

Our 7204 is Neology's third generation multi-protocol UHF reader with an external antenna system featuring robust, high-speed air interface performance.

Overview

Our solution utilizes laterally-aligned antennas, enabling use in space-constrained spaces, reducing infrastructure costs and simplifying maintenance.

The software-based architecture provides a rich application platform addressing the needs of domestic and global deployments ensuring all features and capabilities can be updated as technology develops.

Our proven experience, reliability, and consistent performance is based on Neology's years of leading-edge design, manufacturing, and deployment expertise

Neology holds long-standing intellectual properties with over 400 granted patents.

Reader Features

- Capability to perform eight different UHF RFID protocols with ability to configure the application specific set of protocols
- Over 20 years of proven AVI experience
- 4-port system for applications such as
  - ORT
  - Stop-and-Go / Plaza Tolling
  - HOV and HOT Lanes
- Can be factory configured to support 2-port application.
- Allows for easier installation
- Delivers a lower lifecycle cost
- Ability to activate or deactivate antenna ports and protocols through software
- Designed to withstand extreme weather conditions, temperatures, humidity, and vibration while maintaining regional compliance standards for performance.

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Neology is proud to be an International Bridge, Tunnel and Turnpike Association (IBTTA) member and Platinum Sponsor for 2024.

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Technical Specifications

	Specification
Frequency *	UHF 865-868 MHz (ETSI), 902-928 MHZ (FCC/IC Unlicensed) 902-904 MHz / 911-921 MHZ (FCC/IC Licensed)
Supported Protocols	ISO 18000-63 (6C), ISO 18000-62 (6B), ISOB-80K (SeGo), PS111 (IAG/TDM), ASTMv6, ISO10374 (ATA), CalTrans Title-21 (T21), FLEX
RF Power *	10mW-2W conducted subjected to local regulatory requirements
Input Power	18-30VDC, 24VDC nominal at power supply
Power Consumption	11W idle, 24W max
Connections	Digital I/O, Ethernet LAN; 4 N-Type Female connectors for external antenna connection
Upgradeable Firmware	Yes
Operating Temperature	-40° C to +75° C
Storage Temperature	-40° C to +85° C
Relative Humidity	95% non-condensing
Dimensions	(L x W x D) 419 x 330 x 83 mm / 16.5 x 13 x 3.27 in
Weight	12 lbs (5.44 Kg)
Communications	Ethernet 10/100/1000
Regulatory	Compliant to Class B Digital Device under ETSI EN302 208-1, EN302 208-2, EN301 489-1, EN 301 489-3, EN 50364, FCC Part 15, FCC Part 90, IC RSS-247 and IC RSS-137
Case Material	Aluminum, IP66 rating
Antenna Ports	4
Safety	IEC 62368-1 (general) and IEC 60950-22 (outdoor)

* *Frequency and power settings are factory limited to destination country's specific regulations upon certifications granted. Contact Neology representative for international grants in place.*

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Availability of Configuration Profiles for Regulatory Certifications

Country	Frequency	Power
Bolivia	915-928 MHz	4W EIRP
Brazil	915-928 MHz	4W EIRP
Colombia	915-928 MHz	4W EIRP
Ecuador	902-928 MHz	4W EIRP
India	865-868 MHz	2W ERP
Panama	902-928 MHz	4W EIRP
Peru	916-928 MHz	4W EIRP
Mexico ✦	902-904 MHz 911-921 MHz	30W ERP 30W ERP
Uruguay	916-928 MHz	4W EIRP
United States	FCC 902-904 MHz; 911-921 MHz (licensed) FCC 902-928 MHz (unlicensed)	30W ERP 4W EIRP
EU EU Region (ETSI)	865-868MHz 916-918 MHz	2W ERP 4W EIRP
Korea	917-921 MHz	4W EIRP
Malaysia	919-923 MHz	2W ERP
Philippines	918-920 MHz	4W EIRP
Singapore	920-925 MHz	2W ERP
Vietnam	920-923 MHz	0.5W ERP
South Africa	915-919 MHz	4W EIRP
Turkey	865-868 MHz	2W ERP

✦ *Readers for Mexico are restricted via factory setting to fixed frequency operations in one of the two available bands.*

Neology, Inc. is a global tolling technology company headquartered in Carlsbad, California, that develops and delivers tolling products and services used in over 5,000 lanes and ETC systems across North America, Latin America, Europe, and Asia Pacific.

Neology is partnering with our customers to help communities enhance mobility, increase sustainability, improve safety, and generate increased revenue.

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