Tarvos Integrated RFID Reader

Highlights

- **Simple Installation**
- **Best-in-class Performance**
- **Multi-Protocol**
- **Integrated Reader**
- **External Antenna Port**
- **Ruggedized for Harsh Environments**
- **IP 67 tested and certified design**
- **Industrial Grade Design**
- **26-Bit Wiegand & OSDP Output**
- **Arming Loop Control Support**
- **Direct Control Output Support**
- **PoE Powered**
- **Constellation Test Tool & Web Software**

Applications

Gated Communities

Parking

Private Business

Loyalty (Car Dealerships, Casinos)

Logistics

Critical Infrastructure

Airports

College/UniversityTransit/Bus

Product Description

The Tarvos Integrated Reader takes UHF RFID performance for vehicle identification systems to a new level by providing best-in-class high-speed read accuracy and reliability. Tarvos is designed from the ground up for high-demand vehicle identification. Taking advantage of its tolling design roots, Tarvos provides unmatched performance for the Access Control & Parking Markets.

Tarvos, along with its siblings, Titan & Saturn, are the only Multi-Protocol Readers in the market for Access Control and Parking applications. As a result, Tarvos is capable of reading multiple protocols simultaneously, enabling seamless integration into current infrastructure and legacy transponder bases. These capabilities provide significant cost benefits. Tarvos supports: ISO-18000 63/6C, RAIN RFID/Gen2V2, ISO 18000 6B, 6B-80K, ISO 10374 (ATA), TDM (IAG), Title 21 and Artefato SJ5511 protocols.

Tarvos also supports adding an additional high-performance antenna via its standard external port, providing added flexibility to cover a second lane, and/or expanded read zone coverage.

Tarvos is designed for extreme outdoor weather conditions and is designed and certified to IP-67. Tarvos, like all of our reader offerings, is also fully FCC-compliant and certified.

Infinity **RFID**, *Inc.*

Antenna Specification

Frequency Range	865 - 928 MHz
	(Wideband design)
Gain	12 dBi
Return Loss	≤ 15 dB
Horizontal Beamwidth	45.5°
Verical Beamwidth	43.5°
Polarization	Linear Horizontal
Impedance	50 Ω
Radome Material	ABS

Specifications

Physical

Dimensions	445 x 445 x 100mm
	(17.52 x 17.52 x 3.93")
Weight	3.97kg (8.75lbs)
Visual Indicator	LED
	(Power, Transmit, Receive, Status)

RFID

Frequency	UHF 860-960 MHz
Protocols	ISO 18000 6C/63
	RAIN RFID/Gen2v2
	*ISO 18000-6B, 6B-40K, 6B-80K
	*ISO 10374 (ATA)
	*TDM (IAG/PS111)
	*Title 21
	*Artefato SJ5511

*Note: these protocols are optional and may be purchased.

Supported Regions	FCC
	ETSI
	Other available
Data Transfer Rate	up to128 kbps (from reader to tag)
Read Rate	up to 1000 tags/second
Tag speed	up to 240km/h
Conducted Power	*+10 to +33 dBm
Power Consumption	24 Vdc, max 19.8W
Interference Rejection	Dense Interrogator Mode

Connectivity

Communications	10/100 BaseT Ethernet, RS232
GPIO	2 Inputs, 2 Outputs
Power Supply	PoE+ or +12 to 57 VDC, 1.25A
Antenna Ports	1 Monostatic, N-Type Female

Environment Requirement

Operating Temperature	-40°C to +70°C (Ambient)
	(-40°F to +158°F)
Storage Temperature	-40°C to +85°C
	(-40°F to +185°F)
Humidity	100% Condensing
IP Rating	IP67

Hardware and Software

Memory	Persistent data storage for up to 1,000,000 unique transactions
Network Services	DHCP, HTTP, SNTP, Discovery

Regulatory

Safety	UL 60950-01, UL 2043, IEC 60950-1, EN 60950-1
RF/EMI/EMC	FCC Part 15, RSS 210, EN 302 208, ICES-003 Class B, EN 301 489-1/3, FCC Part 90 and RoHS, WEEE
Case Material	Cast Aluminum

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