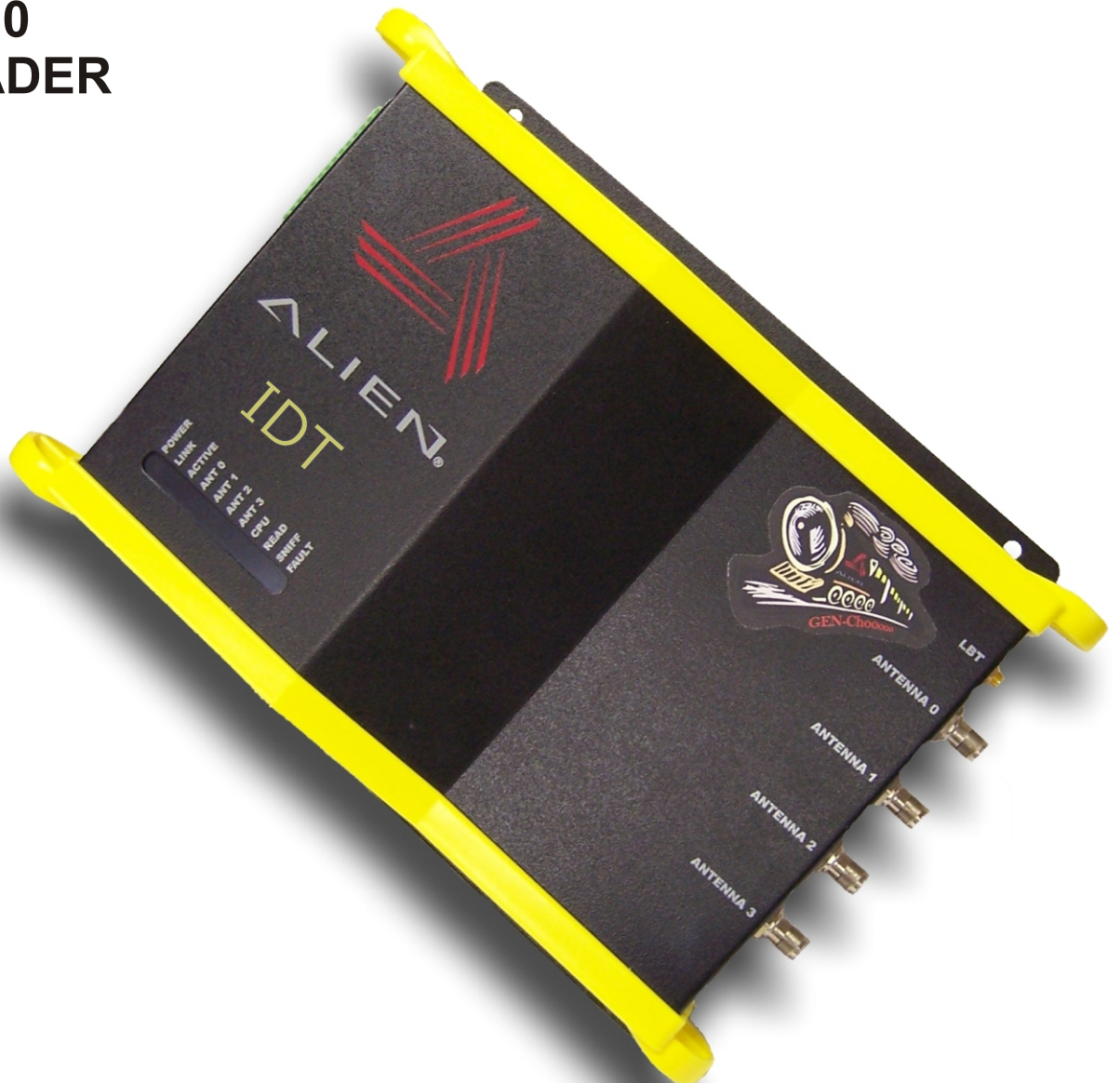


IDT

Rail Transportation

**ALR 9890
AEI READER**



Reverse Engineered
from Alien Technology

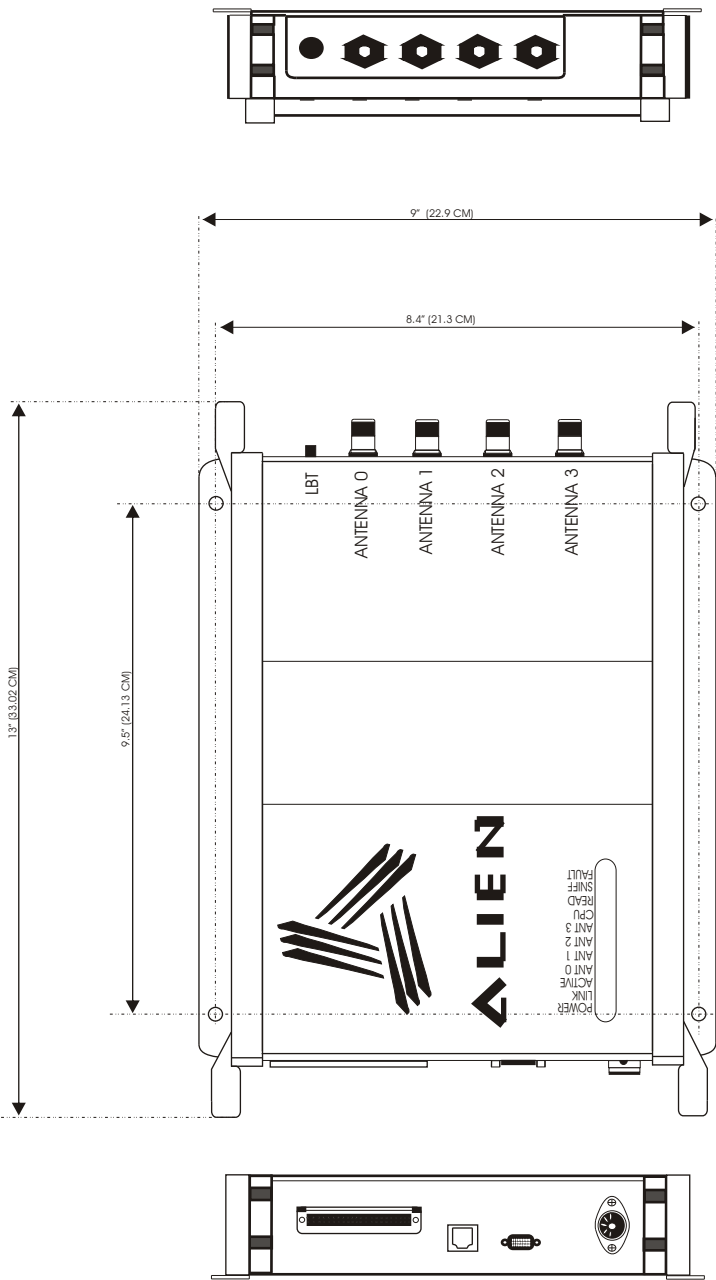


Figure 2: The ALR-9890 Enterprise RFID Reader

MODEL NUMBER	ALR-9890
ARCHITECTURE	Xscale® processor, Linux, 64 Mbytes RAM, 32 Mbytes Flash
FREQUENCY	902.75 Mhz - 927.25 Mhz
SUPPORTED RFID TAG PROTOCOLS	S918-A, EPC C0, 0+, C1,C1G2; Q1'06: ISO 18000-6c, ISO 10374; Mh5.1.9.1990; UHF battery
REMOTE MANAGEMENT PROTOCOLS	SNMP, IDT Reader Protocol®, EPC reader protocols (pending ratification)
NETWORK PROTOCOLS	DHCP, TCP/IP, SNTP
DENSE READER MANAGEMENT	Dense Reader Mode, Clean Spectrum, Listen-before-talk, Auto triggering and event management
READER COMMUNICATION PROTOCOL	Alien Reader Protocol®, EPC reader protocols (pending ratification), IDT AEI Protocols, T94 w/Unlimited Sessions
CHANNELS	20 - S918 Spec
CHANNEL SPACING	500KHz
RF POWER	30 dBm; 4 watts EIRP
POWER	AC/DC power converter; 45 Watts maximum (120 or 240 VAC)
COMMUNICATIONS	RS-232 (DB-9 F), LAN TCPI/IP (RJ-45)
ANTENNAS	4 ports for 4 read points; multistatic topology; circular or linear polarization, 6 meter cables, reverse polarity TNC
GENERAL PURPOSE INPUTS/OUTPUTS	4 inputs, 8 outputs, optically isolated, 0.5 amp current capacity
DIMENSIONS	(L) 11" (28 cm)x(W) 9.0" (22.9 cm)x(D) 2.22" (5.6 cm)
WEIGHT	2.0 kg(4.4 lb)
OPERATING TEMPERATURE	-20°C to +50°C(-4°F to +122°F)
DUST AND MOISTURE	Ip 54
LED INDICATORS	Power, Link, Active, Ant 0-3, CPU, Read, Sniff, Fault(red)
SOFTWARE SUPPORT	IDT Reader Software
COMPLIANCE CERTIFICATION	FCC Part 90; UL 60950 (Pending)

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