

# IDT

## T - 1000D RFID/AEI Reader



**Complete S918a AEI/RFID Reader Solution** – Meets all the standards of the AAR S918a standards and practices. Extensively tested throughout North America on mainline, industry leads and yards. Proprietary AI self learning axle algorithms and pattern detection, integrated off-track presence system, flexible configuration, speed and direction, relative tag location, train length, untagged car placement.

**Advanced Power management** including smart charging, failure notification, and optional temperature modules.

**Detailed system health and diagnostics reports.** Completely customizable health and diagnostics settings take the guess work out of incident response.

**Versatile** – About the size of a hardback book the IDT reader system can be used in places the legacy systems never could. Applications include Legacy System Replacement, HBD, Industry Tracks, Branch Tracks, and Yards to name a few. Readers have been used at X-Ray, Optical Safety Appliance, Video, Acoustic Bearing Detection, and Weight-in-Motion sites.

**High Performance** – Completely TCP/IP based with all the functionality that goes along with today's network appliance. Telnet, FTP, Direct File Transfer and Email options for file and system health information. All functions are managed through the web browser eliminating the need for special software or training. RSS feeds for customizable data updates.

**Green** – The reader uses about the same amount of power as a 40W light bulb. Advanced power management options make it perfect for use with solar.

**Low Cost** – Costs a fraction of the traditional systems to own and operate.

- Single and Double Track Capable
- AAR S918a Compliant
- IP Based
- High Performance
- Advanced
- Small Footprint
- Low Cost

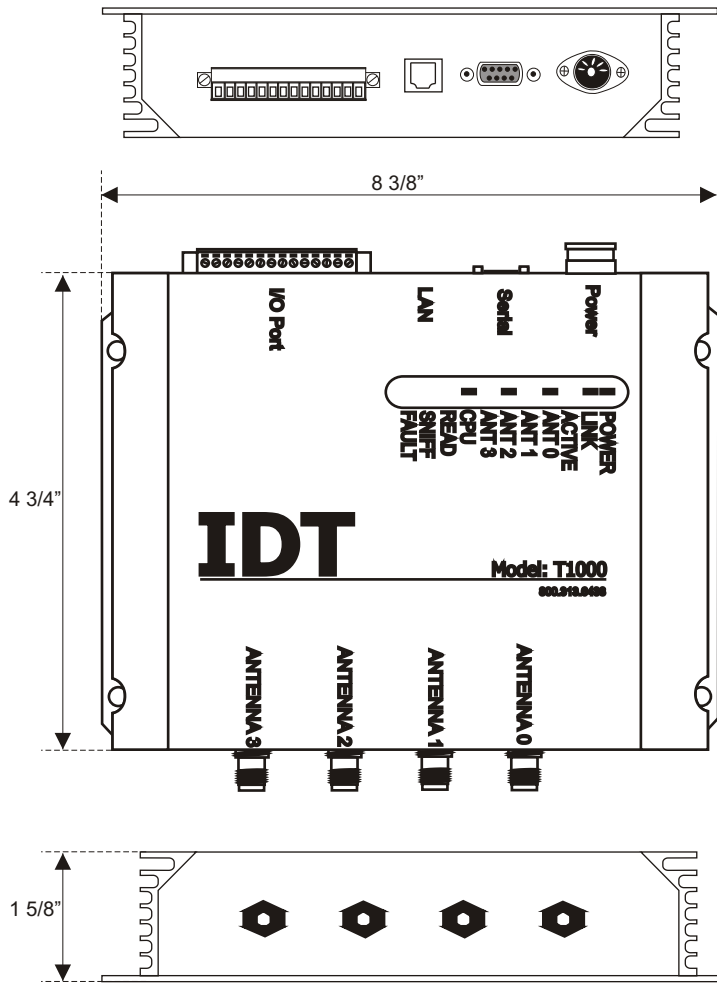


Figure 2: The T -1000D RFID Reader

MODEL NUMBER	T - 1000D
ARCHITECTURE	Xscale® processor, Linux, 64 Mbytes RAM, 64 Mbytes Flash
FREQUENCY	902.75 MHz - 927.35 MHz
SUPPORTED RFID TAG PROTOCOLS	s918a; EPC Gen 2; ISO 18000-6c
REMOTE MANAGEMENT PROTOCOLS	HTTP, telnet
LAN PROTOCOLS	DHCP, TCP/IP, NTP
DENSE READER MANAGEMENT	Dense Reader Mode, Event Triggering
READER COMMUNICATION PROTOCOL	TCP/IP, telnet ftp, IDT AEI Protocols, T94 w/Unlimited Sessions Email, HTTP
CHANNELS	50
CHANNEL SPACING	500KHz
RF POWER	Max 20 watts EIRP, 1.66 watts with 11.5 dBi standard rail antenna
POWER	12 - 24v DC; Tri-voltage 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; monostatic topology; circular or linear polarization, reverse polarity TNC
GENERAL PURPOSE INPUTS/OUTPUTS	4 inputs, 8 outputs, optically isolated, 0.5 amp, requires external power source of no more than 24 volts
DIMENSIONS	(L) 4 3/4" x (W) 8 3/8" x (D) 1 5/8"
WEIGHT	1.5 kg(4.4 lb)
OPERATING TEMPERATURE	-20°C to +50°C(-4°F to +122°F)
DUST AND MOISTURE	Ip 53
LED INDICATORS	Power, Link, Active, Ant 0-3, CPU, Read, Sniff, Fault(red)
SOFTWARE SUPPORT	IDT Reader Software
COMPLIANCE CERTIFICATION	FCC Part 90

**IDT**  
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