



ST-AVI-L

Features

- Powered by Impinj Indy R2000 chipset for **maximum** tag detection performance
- Kinds of **communication** interfaces: RJ45, RS232, RS485, Wiegand
- Integrated 9dBi antenna, up to **15m** detection range, extra antenna port supported
- Reader cache support break-point resume 10,000pcs tag IDs in offline **mode**
- Support RSSI, antenna detection, online update
- RSSI & speed filters
- IP65 protection rating for reliable deployment in harsh environment



Specifications

Hardware, OS and Firmware Management

Processor	ARM9, 400MHz
Memory	Flash 128MB; DRAM 32 MB
Operating System	Linux 2.6
Firmware Upgrade	Demo software / Telnet
API Support	Windows - .NET, C++ and Java SDK Android - Java Linux platform - C and Java SDK

Physical Characteristics

Dimensions	290mm(L)×290mm(W)×115mm(H)
Weight	2.5Kgs
Housing Material	Aluminum plate, ABS cover
Indicators	Power, Status, Antenna port indicator

RFID Characteristics

Air Protocols	ISO/IEC18000-6B,6C / EPC C1Gen2, GEN2V2 optional
Chipset	Impinj Indy R2000
Frequency	USA: 902 MHz-928MHz (FCC part 15) EU: 865-868MHz (ETSI EN 302208) CN: 920-925MHz (CMIT)
Supportable /optional	Russian / Japan / Korea / Malaysia / Thailand / other customizable
Programming Functions	Automatic reading/ White list Breakpoint Resume / Match reading / Data filter Data format customizable (PLC / Modbus compatible) RF Micron / EM Temperature sensor custom Services
Built-in antenna	Circular 9dBi, VSWR ≤ 1.4:1
Output Power	0dBm-33dBm (±1dBm) adjustable
Channel bandwidth	<200KHz
Reading Distance	0-15m (According to Tag & Environment)
Anti-collision	RSSI / multi-tag / intensive inventory supportable
Work Mode	Fixed/hop frequency optional
Connectivity	
Communications	RJ45, RS-232, RS-485, Wiegand
General Purpose I/O	2 inputs (DC 0~24V), 2 outputs (DC_MAX:30V, 2A;

	AC_MAX:125V,0.3A), optically isolated
Antenna Port	1 Reverse Polarity TNC port; circular or linear polarization; near and far field compatible
Power supply	DC 24V/2.5A (DC 9V ~ 30V,30W)
Environmental	
Operating Temp.	-20 – +70° C
Storage Temp.	-40 – +85° C
Humidity	5-90% non-condensing (+25°C)
Sealing	IP65

Construction Appearance

