VEHICLE DATA RECORDER



Compact DEUTSCH circuit board enclosure that accept snap-in headers. Radial flange seal provides environmental sealing to the enclosure. Specially designed for harsh environmental challenges and common industrial markets that require advanced performance.

Durability, physical shock resistance, fluid resistance, insulation resistance, moisture resistance, etc are some of the key features.

| Part Number | AVDR-J1A4-001 | VEHICLE DATA RECORDER | | |
|-------------|---------------|-----------------------|--|--|
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| | Package | | | | |
|----------------------------|--------------------------------------|--|--|--|--|
| Part Number | AVDR-J1A4-001 | | | | |
| | | | | | |
| Length | 8.0" (204 mm) | | | | |
| Height | 6.3" (160 mm) | | | | |
| Depth | 2.2" (55 mm) | | | | |
| Frame Material | Thermoplastic | | | | |
| En | vironmental | | | | |
| Operating / Storage Temp | -40°C to 85°C / -50°C to 85°C | | | | |
| Normal Operating Condition | 24°C | | | | |
| Electrical | | | | | |
| Operating Voltage | 7V - 36V | | | | |
| Communication | | | | | |
| Protocols | CAN / J1939 | | | | |
| Baud Rate | Flexible from 5kBit/sec to 1MBit/sec | | | | |



AVDR-J1A4-001

| Data Logger: | AVDR-J1A4-001-x | | | | AVDR-J1A4-002-x | |
|------------------------------|---|--|---|---|---|---|
| Data Logger H/W modification | A | В | C | D | С | D |
| СРU | ARM11 800 Mhz 32-bit RISC ARM | ARM Cortex-A7 900 Mhz 32-bit quad-core | ARM Cortex-A53 1.4 GHz 64-bit quad core | ARM Cortex-A72 1.5 GHz 64-bit quad core | ARM Cortex-A53 1.4 GHz 64-bit quad core | ARM Cortex-A72 1.5 GHz 64-bit quad core |
| RAM | 512 MB | 1 GB | 1 GB | 2 GB | 1 GB | 2 GB |
| Storage | 8 Gb | 8 Gb | 8 Gb | 8 Gb | 8 Gb | 8 Gb |
| # of hours of PPMx Data | 12000 Hours CAN J1939 – Connection to the Vehicle data stream / collected data downloading Ethernet 10/100/1000 - for device settings interface access /collected data downloading. USB (2.0x2, 3.0x2) - for technical support no regular access | | | | | |
| Physical Ports/Connections | | | | | | |
| Wireless Connections | N/A | | | | b/g/n single band 2.4 Ghz | b/g/n/ac dual band 2.4/5 GHz |
| Encryption | | N | FIPS 140-2 | | | |
| Power Consumption | 12 Volt - 250 mA (3 W) average when idle, 520 mA (6.25 W)maximum under stress | | | | | |
| Other Sensors | N/A | | | | | |
| Software | | | | | | |
| Data Logger: | | VDR Firmvare 1.0.0.005 | | | VDR Firmvare 1.1.0.001 | |
| Operating System | Based on Debian GNU/Linux v.10 | | | | | |
| Wired Data Downloading | VDR GUI 1.0.0.006 | | | | VDR GUI 1.1.0.001 | |
| Wireless Data Downloading | N/A | | | | | |
| CAN BUS Data Downloading | VDR Data Downloader v.2.0.1.1 | | | | | |
| Software Update | To update the VDR firmware, connect the VDR to your computer using the Ethernet cable and access the embedded interface. The new firmware can be downloaded from the company website and can be uploaded onto the device using the embedded interface. | | | | | |



621 Technologies Inc. 335 Tank St. Petrolia ON 1-519-333-3361

PERFORMANCE SPECIFICATIONS

TEMPERATURE

Operating at temperatures from -40° C to +85° C continuous at rated current.

DURABILITY

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

VIBRATION

No unlocking or unconnected and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.

PHYSICAL SHOCK

No unlocking, unconnected or other unsatisfactory result during or after 50 G's in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202, Method 213, Condition "C".

FLUID RESISTANCE

Connectors show no damage when exposed to most fluids used in industrial applications.

INSULATION RESISTANCE

1000 meg ohms minimum at 25° C.

MOISTURE RESISTANCE

Properly wired and mated connections will withstand immersion under three feet of water without loss of electronic qualities or leakage.

DIELECTRIC WITHSTANDING VOLTAGE

Current leakage less than 2 milliamps at 1500 VAC.

THERMAL CYCLE

No cracking, chipping or leaking after 20 test cycles from -55° C to +125° C.

