



PROVEN RELIABLE in the real world

PL1000T Communication Module



PRODUCT INFORMATION



The PL1000T ECU has the processing power, memory, communications interfaces, and software to integrate many mobile and industrial applications. The ECU has flexible communications capabilities and replaces many of today's purpose built products.

- "Rugged design
- 12 / 24 Volt Battery Powered
- Sealed

Operating Characteristics/Specifications

Processing and Memory:

MPC555 Microprocessor	40 MHz
Flash ROM	4 MB Max.
SRAM	4 MB Max.
BDRAM	2 MB Max.
EEPROM	32 kB
Real-Time Clock	1

Inputs:

Switch to Battery w/ wake up input	1
Key Switch (+Bat)	1

Software Functionality:

Engine Vision Interface	
Module Replacement	Yes
Global Position System Interface	
Module Replacement (NMEA-183)	Yes
Sea Water Temperature and Depth Translation to CDL and J1939 (NMEA-183)	Yes
Cat Data Link Tunneling over J1939	Yes
J1939 Bridge	Yes
Can Extension Bridge	Yes
Embedded Communications Adapter	Yes
Cat Data Link Boost	Yes

Communication:

Cat Data Link	1
CAN 2.0 Data Link	2
RS-232 Serial ports	3
RS-485/422	1

Environmental Specifications

Operating Temperature Range (ambient)	-40°C to +85°C
Radiated Immunity	15.0KHZ to 1.0 GHZ @ 55 V/M
Storage Temperature Range (Normal)	-50°C to +120°C
Output Shortage Tolerance	75% to 133% (NSV) Nominal System Voltage
Input Shortage Tolerance	Between Input and Batt+ / Batt-
Humidity Tolerance	115% NSV, 90% relative humidity over operating temperature range
Salt Spray Tolerance	115% NSV with 5% salt spray for 48 hours at 35C
Chemical Splash Immunity	Diesel fuel, engine/machine oil, & SAE J1455 chemical agents
Vibration (shock isolated components tolerance)	9.80 Grms random vibration from 24-2000 Hz in three orthogonal planes
Moisture leakage (Sealant pressure tolerance)	+/- 35 kPa against water and water vapor
Electrostatic environment	Zero damage during exposure to electrostatic painting process