

VDL 4000/VDU

Vehicle Display Unit



◀ VDL 4000/VDU

The VDL 4000 vehicle display unit offered by CNS Systems is the ideal vehicle display for the most demanding applications at an airport. The slim sized, light weight and ergonomically designed all-in-one mobile computer is built to withstand extreme temperature, moisture and shock conditions.

The VDL 4000/VDU is offered in a wide range of sizes and options, providing suitable solutions for varying customer needs. Options made available are e.g. processor speeds up to 1,4 GHz, touch screens up to 1000 cd/m², IP67, boot devices and internal memory.

Connected with the VDL 4000/VTE transponder and CNS Systems software, the display provides the driver with Automatic Dependent Surveillance Broadcast (ADS-B) Information for positioning, situational awareness and identification of all ground movements. The display enables applications for task assignment and vehicle coordination in ground handling as well as surveillance, routing, guidance and control for the highest level of operation in Advanced Surface Movement Guidance and Control Systems (A-SMGCS).



CNS SystemsTM

Maritime and Aviation Solutions



Technical specifications

Processor

VIA1000 MHz (Other options available)

RAM memory

256 MB (Other options available)

Display

10,4" diagonal (Other options available) SVGA (800x600 Pixels), Color active Matrix TFT 256K colors, 120 degree viewing angle, 0-100% dimmable, 400 NIT, cd/m²

User Interface

High Resolution resistive touch screen, On/Off switch and manual dimmer control

Storage

Compact Flash industrial grade 512 MB (Other options available)

Interfaces

Serial ports RS 232C, COM 1-2, up to 115 Kbit/s	2
USB 2.0 (USB 1.1 High Speed with VIA)	2
Firewire	1
Ethernet 10/100-TP, RJ45,	1

Power supply

Power requirements	10-36 VDC
power consumption	5 W standby, 25 W operating and Max 45 W

Operating Systems

Linux (Other options available)

Physical characteristics

Size (W x H x L)	280 x 205 x 55 mm
Weight	3,1 Kg
Enclosure	Aluminium, powder coated

Environment

Operating Temperature	-30 C to 50 C (cold start -20), Storage Temperature -30 C to 75 C
Jet of water:	IP-65 (standard), IP67 (optional)
Humidity	10 - 95% RH, non-condensing
Vibration	5 - 500 Hz/4.5 g RMS 3 hours XYZ (non-rotating disk),
Shock:	30 g for 11 ms (non-rotating disk), MILSPEC 810E and 810C compliant, Track vehicle tested, HALT Tested - (Highly Accelerated Life Tested)

Regulatory Approvals

	Din 40050 Part 9 IEC 529,
Safety	UL: UL94, Class VO
FCC	Part 15 Class B
International Safety	CE Vehicle, FCC light industry
Electrical	ISO7632-1, reverse polarity, dual battery
EMC Susceptibility	ISO7637-1. -2, EN61000-4-2
EMC Emissions	EN55022
Temperature	IEC 68-2-36 Fdb, IEC 68-2-27, IEC 68-2-1 Ad IEC 68-2-2 Bc, IEC 68-2-30 Db, IEC 68-2-1 Aa, -2Ba, 14 Na

Accessories

Mounting solutions, AC/DC adaptors, Industrial DC/DC, Cables and adaptors,

RF options

Cardbus PCMCIA compatible (radio independent), WLAN, WiFi, GPRS, UMTS, Bluetooth, GPS

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