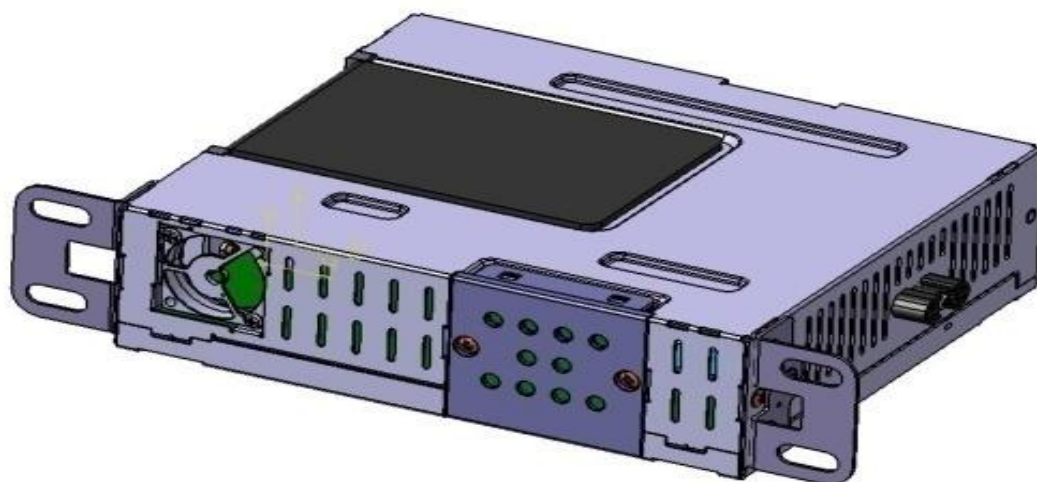


RadNav User Information

Model Name : LANR14



Product description

- RadNav is AVN(Audio/Video/Navigation) product that is Tablet forms of Multi-touch HMI.

- RadNav AVN system performs the following functions

Management of auxiliary audio sources , Hands-free phone(Bluetooth), (2.5D/3D)Navigations assistance, Radio functions, Auxiliary audio function (USB,AuX, Bluetooth connection)

a. Model name : RadNav2014

b. Dimensions

- Height 50mm
- Width 178mm
- Depth 160mm
- Weight : 1.04 Kg.
- Operation Condition : -40°C ~ 85 °C

c. Integrated function

- Display: 7, 8.6 inches Central Panel (Valeo) – LVDS
- Communication: CAN (multimedia CAN & vehicle CAN)
- CVBS: rear view camera
- SWRC / SWRA: remote controller
- 4ch speaker + 2ch Sub woofer
- 2 Antenna Diversity Radio
- DAB antenna
- GNSS
- AUDIO: MCH1, MCH2, TCU, ONDAS, ANC(active noise cancellation),
- Bluetooth (BT mic)
- Navigation

d. General function

- Normal Operating Voltage : DC 9 - 16V
- FM : 87.5 MHz - 108 MHz 50kHz STEP
- MW : 531kHz - 1620kHz 9kHz STEP
- LW : 144KHz - 288KHz 1kHz STEP

e. AUDIO section

- OUT POWER : 20W X4 ch 4 ohm (1kHz 10% THD)
- SUB Woofer : 2ch
- LOAD IMPEDANCE: 4 ohm X 4

f. Operate power manage

: The supply voltage range for Nominal mode is from 9V to 16V.

0 V < +Bat < 5.5 V	May not operate, no destruction.
5.5 V < +Bat < 9V	CAN is functional TCU Communication is functional Nominal performances at minimum during thermal engine voltage profile (refer to Stop&Start requirement)
9V < +Bat < 16 V	100% Nominal mode Operates with nominal performances.
16 V < +Bat < 18 V	Operates with nominal performances during 1 hour
18 V < +Bat < 24 V	The ECU is placed in a non-operative mode providing it with optimum protection against the consequences of the voltage surge. Regarding the degraded mode, ECU operation returns to a normal mode as soon as the various supplies become normal again.
24 V < +Bat	May not operate, destruction possible

g. feature

Function		Feature
System	CPU	ARM Cortex-A9 Dual Core (@1GHz)
	RAM	DDR3 1GB (@ 667MHz)
	Internal Storage	eMMC 32GB
	OS	Android 4.0 (Ice Cream Sandwich)
Display	LVDS	7" WVGA / 8.7" XGA
Navigation	Map	3D Map
Position	GPS	O
	DR (Gyro Sensor)	Gyroless
Broadcasting	FM/AM	Tuner Diversity (Option)
Media	USB	Audio, Photo
	iPod	Digital I/F
	AUX	Audio, Video
Bluetooth	Supported Specification	BT 3.0
	Supported Profile	A2DP, AVRCP, GAVDP, HFP1.5, OPP, PBAP, MAP
	Frequency rage	2.4GHz ~2.4835GHz
	Power	Transmit Power : Min :-6 dBm TYP : 2 dBm, Max : 4dBm Reception : Min : -86 dBm TYP : -92 dBm
	Channel	79
External Interface	External AMP	O
	Rear Camera	O
	Steering Wheel	O
	Remocon	O

EU Conformity Notice:

CE 0197

This device should be installed and operated with minimum distance 20 cm between the device and your body. And this phrase is for the general statement for consideration of user environment.

Regulatory Notices

Part 15.19 statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Part 15.21 statement

Changes or modifications not expressly approved by the manufacturer (or party responsible) for compliance could void the user's authority to operate the equipment.

Part 15.105 statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.