ON-BOARD CONTROL INTERFACE ICU602
ON-BOARD PASSENGER INFORMATION SYSTEM

FEATURES

- Alphanumeric keyboard with user-friendly user interface and backlighting

- Standard interfaces: RS485, Digital I/O, RS232, USB

- Optionally interfaces: IBIS Slave, IBIS Master, GPS, Ethernet, Audio

THE ALL IN ONE SOLUTION

The ICU602 control unit processes all protocols and information for all Luminator displays, including destination display, route number and stop information - no matter which generation of device is in use.

Automatic messages such as "Next stop" displays and voice announcements are controlled by the odometer or (optionally) triggered by GPS. Driver announcements are possible inside and outside the vehicle - e.g. for passengers waiting at a stop.

The control unit fits into any standard radio slot (ISO 7736) and is equipped for use under tough conditions with an IP-classified front with dust and water protection. Optionally, the rear side can also be IP-classified.

In addition to GPS reception, ICU602 has an Ethernet option and the option of connecting to an on-board gateway. Using the network connection, the back office can send current information or software updates of the displays and devices on-board.

Diagnostic information is automatically sent to the control center allowing for easy and efficiency troubleshooting and maintenance.

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TECHNICAL DATA

Order Information	
LTG Sweden AB	CU622102-00x 2xRS485+Audio+GPS+Ethernet CU622102-01x 2xRS485+Audio+GPS+Ethernet with MAN adapter cable CU622000-00x 2x485, IBIS Slave CU622000-01x 2x485, IBIS Slave with MAN adapter cable
Display (Control Unit)	
Technology	LCD
Display Size	106 mm (W) X 27 mm (H) - viewing display area
Resolution	64 pixels x 256 pixels
Computer	
Processor	ARM 7
Memory	256 MB
RAM	8 MB
Software	
Applications	MIE: target texts, configuration and acoustically files MAW: update and diagnostics
Update	USB IP Ethernet via MAW
Electrical Properties	
Operating Voltage	24 VDC (9 - 36 VDC)
Power Consumption	Max 0.2 A at 24VDC
Current Consumption	200mA
Interfaces	
12 VDC In	1x (Ilag 7p)
24 VDC In	1x (Ilag 7p)
WLAN	N/A
CAN	1x (Ilag 30p)
Digitaler In	1 speedometer, 2 active high (1 analog), 3 active low (Ilag 30p)
Digitaler Out	2x (relay). (Ilag 30p)
Alarm In	Via digital in
Alarm Out	Via digital
Vehicle Signal	Via digital in
Car Hold Signal	Via digital in
Ethernet	1x (m12 -D)
IBIS (VDV 300)	1x Ilag (option)
IBIS slave (VDV 300)	1x Ilag
MONO	1x Ilag (option)
RS232	1x Ilag 30 (standard)
RS485	2x Ilag 7 (Standard 2 , +1 Add-on Product)
USB	1x
Audio Out	2 channel (line/mic) (Ilag 30)
Mechanical properties	
Weight	620 g
Dimensions	178 mm x 115 mm x 50mmm
Color	Black
Mounting	Radio slot

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TECHNICAL DATA

Environment	
Operating Temperature	- 25°C to 70°C
Ingress Protection	IP67 front, IP30 back
Cooling	Passive
Standards	
DIN EN 50121-3-2	x
DIN EN 50155	x
ECE-R10	x
ECE-R118	x
Directive 2006/28/EC	x
Directive 95/28/EC	x
VDV-300	x (option)
Approvals	
ECE-R10 (EMV)	04178
E-mark	4178
CE	x
Drawings	
2D Drawing	CU622xxx-000

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