## **INFOTAINMENT DISPLAY BASIC 18.5"**

### ON-BOARD PASSENGER INFORMATION SYSTEM





### **FEATURES**

- Reliable, durable, high image quality
- · TSI compliant
- Maintenance-free





#### THE RIGHT SCREEN FOR EVERY USE

Each day, Luminator Technology Group's infotainment systems provide informational and promotional content to millions of people worldwide. And there's a good reason for that - at Luminator, we know how much our customers value energy-savings and operational efficiency. That's why our solutions combine durability, the best possible functionality and the greatest possible efficiency. With a variety of enclosures and connection combinations – we can satisfy a variety of applications. And if not, we will adapt the product for your needs regardless of where your buses are driving.



# **INFOTAINMENT DISPLAY BASIC 18.5"**

## ON-BOARD PASSENGER INFORMATION SYSTEM

#### **TECHNICAL DATA**

IT381126.1 L MASTER-IMO   IT381126.1 L MASTER   IT381126.1 L MAS	Order Infromation	
Table   Tabl	GORBA	27.89.53.04.306
IT381+26.1L.SLAVE	LTG Rastatt GmbH	IT381I-26.1A_MASTER-IMO
Display   TFT/LCD   TFT/LCD   Size   18.5 linch   Sapect Ratio   16.9   True Color (16.7 million colors)   Active Display Area   410 mm x 230 mm   Approx. 400 ord m² (Nits)   Approx. 400 o		
TET/LCD   Size   18.5 Inch   Size		T381I-26.1I_SLAVE
18.5 Inch	Display	
Aspect Ratio   16:9   True Color (16.7 million colors)	Technology	TFT/LCD
Color Depth         True Color (16.7 million colors)           Active Display Area         410 mm x 230 mm           Resolution         1.366 x 768 (WKQA)           Brightness (without front-glass)         Approx. 400 cd/m² (Nits)           Contract (without front-glass)         Max. 1.000:1           Viewing Angle (without front-glass)         175° (h), 176° (v), expanded perspective           Backlight         LED           Computer         Computer           Processor         ARM Cortex A9, i.MX6, 800 MHz           Memory         8 GB eMMC           Ram         1 GB DDR3 RAM           Software         Linux           ElectricalProperties         Linux           Operating System         Linux           ElectricalProperties         Approx. 20 W (Slave: approx. 10 W)           Interfaces         To Consumption         Approx. 20 W (Slave: approx. 10 W)           Interfaces         To State approx. 10 W)         Interfaces           CPC-In         1 x 7-pin (110 VDC with external addressing)         Ethernet         2 x (M12, Daisy-Chaining with Fallsafe-Modus)           USB         1 x (USB 2.0)         DSDub-Out         1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor           Mechanical Properties         Approx. 6.6 kg         Dimensions         460 mm	Size	18.5 Inch
Active Display Area Resolution 1.366 x 768 (WXCA) Biglitheses (without front-glass) Approx. 400 cd./m² (Nits) Contrast (without front-glass) Max. 1.000:1 Viewing Angle (without front-glass) 176° (h), 176° (v), expanded perspective Backlight LED Computer  Processor ARM Cortex A9, i.MX6, 800 MHz Memory 86 BB eMMC Ram 16B DDR3 RAM Software Operating System Linux ElectricalProperties  Operating Voltage 110 VDC (77 bis 137.5 VDC) Power Consumption Approx. 20 W (Slave: approx. 10 W) Interfaces  Electrical Properties  1 x 7-pin (110 VDC with external addressing) Ethernet 2 x (M12, Dalsy-Chaining with Failsafe-Modus) USB 1 x (USB 2.0) DSub-Out 1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight Approx. 6.6 kg Dimensions 460 mm x 270 mm x 60 mm Housing-material Stainless steel Elinishing Powder coading Color RAL 9005 - deep black, RAL 9011 - graphite - black Environment Operating Temperature 0 0°C to +45°C Storage Temperature 0 0°C to +60°C MTBF 70.000 h	Aspect Ratio	16:9
Resolution	Color Depth	True Color (16.7 million colors)
Brightness (without front-glass)         Approx. 400 cd/m² (Nits)           Contrast (without front-glass)         Max. 1.000:1           Viewing Angle (without front-glass)         176° (h), 176° (v), expanded perspective           Backlight         LED           Computer           Processor         ARM Cortex A9, i.MX6, 800 MHz           Memory         8 GB eMMC           Ram         1 GB DDR3 RAM           Software           Uperating System           ElectricalProperties           Operating Voltage         110 VDC (77 bis 137.5 VDC)           Power Consumption         Approx. 20 W (Slave: approx. 10 W)           Interfaces           CPC-In         1 x 7-pin (110 VDC with external addressing)           Ethernet         2 x (M12, Daisy-Chaining with Failsafe-Modus)           USB         1 x (USB 2.0)           DSub-Out         1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor           Mechanical Properties           Weight         Approx. 6.6 kg           Dimensions         460 mm x 270 mm x 60 mm           Housing-material         Stainless steel           Finishing         Powder coating      <	Active Display Area	
Contrast (without front-glass)         Max. 1.000:1           Viewing Angle (without front-glass)         176" (h), 176" (v), expanded perspective           Backlight         LED           Computer           Processor         ARM Cortex A9, i.MX6, 800 MHz           Memory         8 GB eMMC           Ram         1 GB DDR3 RAM           Software           Uperating System           Linux           ElectricalProperties           Operating Voltage           Power Consumption           Approx. 20 W (Slave: approx. 10 W)           Interfaces           CPC-In         1 x 7-pin (110 VDC with external addressing)           Ethernet         2 x (M12, Daisy-Chaining with Failsafe-Modus)           USB         1 x (USB 2.0)           DSub-Out         1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor           Mechanical Properties           Weight         Approx. 6.6 kg           Dilmensions         450 mm x 270 mm x 60 mm           Housing-material         Stainless steel           Finishing         Powder coating           Color         RAL 9005 - deep-black, RAL 901	Resolution	1.366 x 768 (WXGA)
Viewing Angle (without front-glass) Backlight LED Computer  Processor ARM Cortex A9, i.MX6, 800 MHz Memory BG BE BMMC Ram 1 GB DDR3 RAM Software  Operating System Linux ElectricalProperties  Operating Voltage 110 VDC (77 bis 137.5 VDC) Power Consumption Approx. 20 W (Slave: approx. 10 W) Interfaces  CPC-In 1 x-pin (110 VDC with external addressing) Ethernet 2 x (M12, Daisy-Chaining with Failsafe-Modus) USB 1 x (USB 2.0) DSub-Out 1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor Mechanical Properties  Weight Approx. 6.6 kg Dimensions 460 mm x 270 mm x 60 mm Housing-material Stainless steel Finishing Powder coating Color RAL 9005 - deep-black, RAL 9011 - graphite - black Environment  Operating Temperature 0 0° C to +45° C Storage Temperature MTBF  MEMORY APROX. 6.6 0° C MTBF  MEMORY APROX. 6.60° C MTBF  MO C to +45° C MTBF  MO MEMORY APROX. 6.60° C MTBF  MEMORY APROX. 6.60° C MTBF  APROX. 6.60° C MTBF  APROX. 6.60° C MTBF  APROX. 6.60° C APROV. 6.60° C MTBF  MO C to +45° C MTBF  MO MTBF  APROX. 6.60° C APROV. 6.60° C		
Backlight         LED           Computer           Processor         ARM Cortex A9, i.MX6, 800 MHz           Memory         8 GB eMMC           Ram         1 GB DDR3 RAM           Software           Uperating System           Linux           ElectricalProperties           Operating Voltage         110 VDC (77 bis 137.5 VDC)           Power Consumption         Approx. 20 W (Slave: approx. 10 W)           Interfaces           CPC-In         1 x 7-pin (110 VDC with external addressing)           Ethernet         2 x (M12, Daisy-Chaining with Failsafe-Modus)           USB         1 x (USB 2.0)           DSub-Out         1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor           Mechanical Properties           Weight         Approx. 6.6 kg           Dimensions         460 mm x 270 mm x 60 mm           Housing-material         Stainless steel           Finishing         Powder coating           Color         RA 9005 - deep-black, RAL 9011 - graphite - black           Environment         O''C to +45 °C           MTBF         70.000 h	Contrast (without front-glass)	
Computer           Processor         ARM Cortex A9, i.MX6, 800 MHz           Memory         8 GB eMMC           Ram         1 GB DDR3 RAM           Software         Unioux           Electrical Properties         Unioux           Operating Voltage         110 VDC (77 bis 137.5 VDC)           Power Consumption         Approx. 20 W (Slave: approx. 10 W)           Interfaces         CPC-In         1 x 7-pin (110 VDC with external addressing)           Ethernet         2 x (M12, Daisy-Chaining with Failsafe-Modus)           USB         1 x (USB 2.0)           DSub-Out         1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor           Mechanical Properties         Weight         Approx. 6.6 kg           Dimensions         460 mm x 270 mm x 60 mm           Housing-material         Stainless steel           Finishing         Powder coating           Color         RAL 9005 - deep-black, RAL 9011 - graphite - black           Environment         0 °C to +45 °C           MTBF         70.000 h	Viewing Angle (without front-glass)	
Processor         ARM Cortex A9, i.MX6, 800 MHz           Memory         8 GB eMMC           Ram         1 GB DDR3 RAM           Software           Union           ElectricalProperties           Operating Voltage         110 VDC (77 bis 137.5 VDC)           Power Consumption         Approx. 20 W (Slave: approx. 10 W)           Interfaces           CPC-In         1 x 7-pin (110 VDC with external addressing)           Ethernet         2 x (M12, Daisy-Chaining with Failsafe-Modus)           USB         1 x (USB 2.0)           DSub-Out         1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor           Mechanical Properties           Weight         Approx. 6.6 kg           Dimensions         460 mm x 270 mm x 60 mm           Housing-material         Stainless steel           Finishing         Powder coating           Color         RAL 9005 - deep-black, RAL 9011 - graphite - black           Environment         Operating Temperature         0 °C to +45 °C           Storage Temperature         -20°C to +60°C           MTBF         70.000 h	Backlight	LED
Memory         8 GB eMMC           Ram         1 GB DDR3 RAM           Software           Linux           ElectricalProperties           Operating Voltage         110 VDC (77 bis 137.5 VDC)           Power Consumption         Approx. 20 W (Slave: approx. 10 W)           Interfaces         CPC-In         1 x 7-pin (110 VDC with external addressing)           Ethernet         2 x (M12, Daisy-Chaining with Failsafe-Modus)           USB         1 x (USB 2.0)           DSub-Out         1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor           Mechanical Properties           Weight         Approx. 6.6 kg           Dimensions         460 mm x 270 mm x 60 mm           Housing-material         Stainless steel           Finishing         Powder coating           Color         RAL 9005 - deep-black, RAL 9011 - graphite - black           Environment         O °C to +45 °C           Storage Temperature         -20°C to +60°C           MTBF         70.000 h	Computer	
Ram	Processor	ARM Cortex A9, i.MX6, 800 MHz
Software  Operating System  ElectricalProperties  Operating Voltage  Doperating Voltage  Power Consumption  Interfaces  CPC-In  1 x 7-pin (110 VDC with external addressing)  Ethernet  2 x (M12, Daisy-Chaining with Failsafe-Modus)  USB  1 x (USB 2.0)  Dsub-Out  1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight  Approx. 6.6 kg  Dimensions  460 mm x 270 mm x 60 mm  Housing-material  Finishing  Powder coating  Color  RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature  0 °C to +45 °C  Storage Temperature  110 VDC (77 bis 137.5 VDC)  Approx. 20 W (Slave: approx. 10 W)  Interfaces  1 x 7-pin (110 VDC with external addressing)  1 x (USB 2.0)  1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight  Approx. 6.6 kg  Dimensions  460 mm x 270 mm x 60 mm  Stainless steel  Finishing  Powder coating  Color  RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature  0 °C to +45 °C  Storage Temperature  -20 °C to +60 °C  MTBF  70.000 h	Memory	8 GB eMMC
Derating System  ElectricalProperties  Operating Voltage  Derating Voltage  110 VDC (77 bis 137.5 VDC)  Approx. 20 W (Slave: approx. 10 W)  Interfaces  CPC-In  1 x 7-pin (110 VDC with external addressing)  Ethernet  2 x (M12, Daisy-Chaining with Failsafe-Modus)  USB  1 x (USB 2.0)  DSub-Out  1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight  Approx. 6.6 kg  Dimensions  460 mm x 270 mm x 60 mm  Housing-material  Finishing  Powder coating  Color  RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature  0 °C to +45 °C  Storage Temperature  -20°C to +60°C  MTBF  MISS - MAD - MA	Ram	1 GB DDR3 RAM
Electrical Properties Operating Voltage 110 VDC (77 bis 137.5 VDC) Power Consumption Approx. 20 W (Slave: approx. 10 W) Interfaces  CPC-In 1 x 7-pin (110 VDC with external addressing) Ethernet 2 x (M12, Daisy-Chaining with Failsafe-Modus) USB 1 x (USB 2.0) DSub-Out 1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight Approx. 6.6 kg Dimensions 460 mm x 270 mm x 60 mm Housing-material Stainless steel Finishing Powder coating Color RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature 0 ° C to +45 ° C Storage Temperature -20 ° C to +60 ° C MTBF  MTBF 1 10 VDC (77 bis 137.5 VDC) Approx. 20 W (Slave: approx. 10 W) Approx. 20 W (M12, Daisy-Chaining with Failsafe-Modus) Approx. 20 W (M12, Daisy-Chaining with Fail	Software	
Operating Voltage     110 VDC (77 bis 137.5 VDC)       Power Consumption     Approx. 20 W (Slave: approx. 10 W)       Interfaces       CPC-In     1 x 7-pin (110 VDC with external addressing)       Ethernet     2 x (M12, Daisy-Chaining with Failsafe-Modus)       USB     1 x (USB 2.0)       DSub-Out     1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor       Mechanical Properties     Weight       Weight     Approx. 6.6 kg       Dimensions     460 mm x 270 mm x 60 mm       Housing-material     Stainless steel       Finishing     Powder coating       Color     RAL 9005 - deep-black, RAL 9011 - graphite - black       Environment       Operating Temperature     0 °C to +45 °C       Storage Temperature     -20 °C to +60 °C       MTBF     70.000 h	Operating System	Linux
Power Consumption Approx. 20 W (Slave: approx. 10 W)  Interfaces  CPC-In 1	ElectricalProperties	
Interfaces  CPC-In  1 x 7-pin (110 VDC with external addressing)  Ethernet  2 x (M12, Daisy-Chaining with Failsafe-Modus)  USB  1 x (USB 2.0)  DSub-Out  1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight  Approx. 6.6 kg  Dimensions  460 mm x 270 mm x 60 mm  Housing-material  Stainless steel  Finishing  Powder coating  Color  RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature  0 °C to +45 °C  Storage Temperature  -20°C to +60°C  MTBF  70.000 h	Operating Voltage	110 VDC (77 bis 137.5 VDC)
CPC-In 1 x 7-pin (110 VDC with external addressing)  Ethernet 2 x (M12, Daisy-Chaining with Failsafe-Modus)  USB 1 x (USB 2.0)  DSub-Out 1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight Approx. 6.6 kg  Dimensions 460 mm x 270 mm x 60 mm  Housing-material Stainless steel  Finishing Powder coating  Color RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature 0 °C to +45 °C  Storage Temperature -20°C to +60°C  MTBF 70.000 h	Power Consumption	Approx. 20 W (Slave: approx. 10 W)
Ethernet 2 x (M12, Daisy-Chaining with Failsafe-Modus)  USB 1 x (USB 2.0)  DSub-Out 1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight Approx. 6.6 kg  Dimensions 460 mm x 270 mm x 60 mm  Housing-material Stainless steel  Finishing Powder coating  Color RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature 0 °C to +45 °C  Storage Temperature -20°C to +60°C  MTBF 70.000 h	Interfaces	
Ethernet 2 x (M12, Daisy-Chaining with Failsafe-Modus)  USB 1 x (USB 2.0)  DSub-Out 1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight Approx. 6.6 kg  Dimensions 460 mm x 270 mm x 60 mm  Housing-material Stainless steel  Finishing Powder coating  Color RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature 0 °C to +45 °C  Storage Temperature -20°C to +60°C  MTBF 70.000 h	CPC-In	1 x 7-pin (110 VDC with external addressing)
DSub-Out 1 x 25-pin (12 VDC und LVDS) to the Slave-Monitor  Mechanical Properties  Weight Approx. 6.6 kg  Dimensions 460 mm x 270 mm x 60 mm  Housing-material Stainless steel  Finishing Powder coating  Color RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature 0 °C to +45 °C  Storage Temperature -20°C to +60°C  MTBF 70.000 h	Ethernet	2 x (M12, Daisy-Chaining with Failsafe-Modus)
Mechanical PropertiesWeightApprox. 6.6 kgDimensions460 mm x 270 mm x 60 mmHousing-materialStainless steelFinishingPowder coatingColorRAL 9005 - deep-black, RAL 9011 - graphite - blackEnvironment0 °C to +45 °CStorage Temperature0 °C to +60°CMTBF70.000 h	USB	1 x (USB 2.0)
WeightApprox. 6.6 kgDimensions460 mm x 270 mm x 60 mmHousing-materialStainless steelFinishingPowder coatingColorRAL 9005 - deep-black, RAL 9011 - graphite - blackEnvironment0 °C to +45 °CStorage Temperature0 °C to +60 °CMTBF70.000 h	DSub-Out	
Dimensions 460 mm x 270 mm x 60 mm Housing-material Stainless steel Finishing Powder coating Color RAL 9005 - deep-black, RAL 9011 - graphite - black Environment Operating Temperature 0 °C to +45 °C Storage Temperature -20°C to +60°C MTBF 70.000 h	Mechanical Properties	
Dimensions 460 mm x 270 mm x 60 mm Housing-material Stainless steel Finishing Powder coating Color RAL 9005 - deep-black, RAL 9011 - graphite - black Environment Operating Temperature 0 °C to +45 °C Storage Temperature -20°C to +60°C MTBF 70.000 h	Weight	Approx. 6.6 kg
Housing-material  Stainless steel  Powder coating  Color  RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature  0 °C to +45 °C  Storage Temperature  -20°C to +60°C  MTBF  70.000 h	Dimensions	11
Finishing Powder coating  Color RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature 0 °C to +45 °C  Storage Temperature -20 °C to +60 °C  MTBF 70.000 h	Housing-material	Stainless steel
Color RAL 9005 - deep-black, RAL 9011 - graphite - black  Environment  Operating Temperature 0 °C to +45 °C  Storage Temperature -20 °C to +60 °C  MTBF 70.000 h		Powder coating
Environment         0 °C to +45 °C           Operating Temperature         -20 °C to +60 °C           MTBF         70.000 h		<u> </u>
Storage Temperature         -20°C to +60°C           MTBF         70.000 h	Environment	
Storage Temperature         -20°C to +60°C           MTBF         70.000 h	Operating Temperature	0 °C to +45 °C
MTBF 70.000 h	· · · · · · · · · · · · · · · · · · ·	
	Cooling	

#### Disclaimer

Features and specifications are subject to change without notice. Properties relating to the Goods contained in this document do not constitute the product specifications but typical values for purposes of description only. February 2023



# **INFOTAINMENT DISPLAY BASIC 18.5"**

## ON-BOARD PASSENGER INFORMATION SYSTEM

#### **TECHNICAL DATA**

Standards	
DIN EN 50121-3-2 (Railway, EMV)	Compliant (CE)
DIN EN 50155 (Railway)	Compliant
DIN 5510-2 (Railway, fire protection)	Compliant (BSS 2)
DIN EN 45545-2 (Railway, fire protection)	Compliant (HL 2)
DIN EN 61373 (Railway, mechanical load capacity)	Compliant (category 1, category B)
NF F 16-101 (Railway, fire protection)	Compliant
NF F 16-102 (Railway, fire protection)	Compliant

