

# AUDIO CAB CONTROL UNIT (CCU)

## ON-BOARD PASSENGER INFORMATION SYSTEM



## FEATURES

- VoIP and UIC568 operation
- Inputs for 2 microphones or 2 handsets
- I/Os for pushbuttons and indicators

## INFORM YOUR PASSENGERS

The Cab Control Unit (CCU) provides an interface to the Gooseneck and Handset microphones, the cab loudspeaker, the pushbuttons and the voice radio. The interface with the voice radio can be made directly with its digital and analogue input/output; no need to go through UIC conversion. A redundant power supply is possible. The CCU has a compact metal enclosure to fit also in condensed areas.



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### TECHNICAL DATA

Electrical properties	
Operating Voltage	Nominal Voltages: EN50155 :2017 - 110V; Other voltages available in option
Insulation and voltage withstand	Compliant to EN50155:2017: Voltage withstand 1000VAC or 1500VDC; Insulation: >20MΩ at 500VDC
Reverse polarity protection	Yes
Voltage interruptions Class	EN50155:2017 – Class S2
Supply changeover class	EN50155:2017 – Class C1
Inrush current	Limited to 5x the nominal current
Interfaces	
Status Indicator	Power; Ethernet 1; Status
Power In	3-pin male Phoenix Combicon
Ethernet	1 x M12 D-coded connector (socket) for Ethernet 10 / 100 / 1000 Mbps
USB	1x USB 2.0 service port
Microphone	1 x Connector to connect up to two gooseneck microphones with the following features: 2x Microphone input (Dynamic)
Analog UIC 568	1 x D-Sub connector with 9 pins male (UIC 568 analog train lines)
Handset Interface	1 x D-Sub connector with 9 pins male (UIC 568 analog trainlines)
Radio Handset Interface	1 x connector (TBD) that mimics and handset to be connected to the radio 1 x connector to support OCC PA functionality 1 x connector to support radio channel control (project specific)
Pushbutton and Indicator Interface	1 x connector for pushbuttons and indicators all working on the 24V internal isolated supply
Mechanical properties	
Dimensions	W x H x D: 225 mm x 85 mm x 170 mm
Finishing	Black powder coated metal case
Environment	
Operating Temperature	Class OT4 as per EN50155 :2017, equivalent to Class TX as per 50125-1 :2014 inside a vehicle compartment: -40°C to +70°C
Storage Temperature	-40°C to +85°C.
Rapid Temperature Variation	EN50155:2017 Class H2
Ingress Protection	IP54
Shock and Vibration	Compliant to EN 61373 performance for Category 1 body mounted equipment. Class B. (complies to EN50155:2017)
Standards	
DIN EN 45545-2	Compliant (HL2)
DIN EN 50121-3-2	Compliant (2016)
DIN EN 50155	Compliant (2017)
NFPA130	Compliant

#### 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