



## COM-1240 MVB INTERFACE BOARD

## DATA SHEET

## Main Features

<b>Architecture:</b>	PC/104 compliant
<b>MVB Devices Class:</b>	3 (4 optional)
<b>Device interface:</b>	EMD (Electrical Middle Distance)
<b>Internal CPU:</b>	32 bits, 24 MHz RISC processor
<b>SRAM:</b>	1 MB (accessible from host)
<b>Dimensions (L x W x H):</b>	90mm x 96mm x 15mm
<b>Power supply:</b>	+5 Volts $\pm$ 5%
<b>Power consumption:</b>	3.5 Watts
<b>Operating temp. range:</b>	-25°C to +85°C (EN50155 compliant)
<b>Relative Humidity:</b>	95% max (non condensing)
<b>Supported O. S.:</b>	Linux, WinCE



## General Description

The COM-1240 is an MVB interface board, compliant with the 2002/95/CE (RoHS) directive, specifically developed to be used as a gateway between a PC104 system and the MVB bus (Multifunctional Vehicle Bus, as used in rail applications).

It will allow for enhanced communications with the devices installed on board railway vehicles thus simplifying connections and widening compatibility.

The COM-1240 features the 32 bit, 24 MHz RISC microprocessor and supports the complete TCN (Train Communication Network) protocol stack Class 3 (optionally Class 4), up to the session layer. This will free up resource requirements on the main CPU Module, as it will only need to handle the application layer of the TCN protocol.

The COM-1240 is lightweight and has very low power consumption. It is EN50155 compliant, so it will be resistant to high vibrations, humidity and temperature extremes.



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