



APPLICATIONS

The EM MODULE M232 is the perfect RS 232 module solution.

The EM MODULE M485 is the perfect RS 485 module solution.

- ▶ Rugged Industrial Module
- ▶ USB to RS 232 Adapter
- ▶ USB to RS 485 Adapter

M232/M485

RS 232 / RS 485



expand your system

BENEFITS

- ▶ Long term availability
- ▶ Small installation depth
- ▶ Low emission, high immunity
- ▶ Integration- and application- services, trainings
- ▶ Rugged & reliable choice for demanding embedded applications

M232

FEATURES

- ▶ 9-pin male D-SUB for RS 232 function
- ▶ Ready for USB 2.0
- ▶ Design, Production and Support "Made in Germany"

M485

FEATURES

- ▶ 9-pin male D-SUB for RS 485 function
- ▶ Ready for USB 2.0
- ▶ Design, Production and Support "Made in Germany"





OVERVIEW

The EM MODUL M232 is powered by proven technology. The module is ready for USB 2.0.

SPECIFICATION SUMMARY

- ▶ RS 232
- ▶ USB 2.0 / 1.1

SPECIFICATIONS M232

SERIAL PORT

9-pin male D-SUB connector for RS 232
Maximum bit rate 1 Mbit/s

USB CLIENT PORT

USB 2.0 / 1.1 Type A

POWER INPUT

USB VCC (+5 V supply, current limited to 500 mA)

OS SUPPORT

Windows® 10, 8, 7, Vista®, XP, Apple Mac OS 10.3 or later, Linux Kernel 3.2 or later, Android

ISOLATION

Galvanic isolated (Option)

MOUNTING

DIN-Rail mounting

DIMENSION

Approximately (L x W x H)
93x38,5x26,6 (mm)

WEIGHT

Approximately 40 grams

CASE

ABS-PC

CONFORMITY

CE

TEMPERATURE RANGE

Operation:
-40°C to +85°C ambient
Storage:
-40°C to +85°C ambient

HUMIDITY

Maximal relative humidity of atmosphere
Operation: 95% non condensing
Storage: 95% non condensing, depends on package

OVERVIEW

The EM MODUL M485 is powered by proven technology. The module is ready for USB 2.0.

SPECIFICATION SUMMARY

- ▶ RS 485
- ▶ USB 2.0 / 1.1

SPECIFICATIONS M485

SERIAL PORT

9-pin male D-SUB connector for RS 485
- RS 485 half duplex
- RS 485 full duplex
Maximum bit rate 3 Mbit/s

USB CLIENT PORT

USB 2.0 / 1.1 Type A

POWER INPUT

USB VCC (+5 V supply, current limited to 500 mA)

OS SUPPORT

Windows® 10, 8, 7, Vista®, XP, Apple Mac OS 10.3 or later, Linux Kernel 3.2 or later, Android

MOUNTING

DIN-Rail mounting

DIMENSION

Approximately (L x W x H)
93x38,5x26,6 (mm)

WEIGHT

Approximately 40 grams

CASE

ABS-PC

CONFORMITY

CE

TEMPERATURE RANGE

Operation:
-40°C to +85°C ambient
Storage:
-40°C to +85°C ambient

HUMIDITY

Maximal relative humidity of atmosphere
Operation: 95% non condensing
Storage: 95% non condensing, depends on package

Our optional modular USB mounting carrier can safely connect up to seven modules with EMTrust's TB-M and TB-H systems.



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