

Modular 1-Wire concept

Expandable 1-Wire!

The modular 1-Wire concept is offering high flexibility and customization for a wide range of applications utilizing multiple 1-Wire devices, such as temperature and ID-button readers, connected to a single RTCU unit.

The 1-Wire concept is based on building blocks such as combiners, splitters and unit interface cables connected together with standard and widely available RJ45 UTP cable technology.



The modular 1-Wire network can easily be designed and implemented using standard of the shelf RJ-45 cables, splitters and/or combiners allowing multi device network to be configured to meet the requirements of the application / installation. Several 1-Wire devices such as temperature sensors and ID-Button readers can be connected to the same network.

Unit interface cables are available which connect the RTCU unit to a splitter or combiner, that again connects to branches with more splitters and combiners and at the end-points of this arbitrary topology various lengths of 1-Wire devices such temperature sensors or ID-button readers can be connected. As the backbone is based on standard RJ45 UTP cable technology expanding a network can easily be achieved.

For a complete overview of RTCU X32 units supporting the 1-Wire technology please refer to the relevant datasheets or technical manuals.

Please consult the RTCU IDE on-line help for information on how to communicate with supported 1-Wire devices.

Key features:

- ❖ Utilizes standard RJ45 UTP technology.
- ❖ Unique ID-Button reading
- ❖ Maxim 1-Wire interface
- ❖ Easy and flexible installation with combiners/splitters
- ❖ Multiple 1-Wire devices on the same bus
- ❖ No power supply requirements

Specifications:

Communication interface	Maxim 1-Wire	
Maximum connected temperature sensors	32	
Maximum connected ID-Button readers	1	
Maximum network weight	65	Meters

Technical data subject to change

For more information:

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