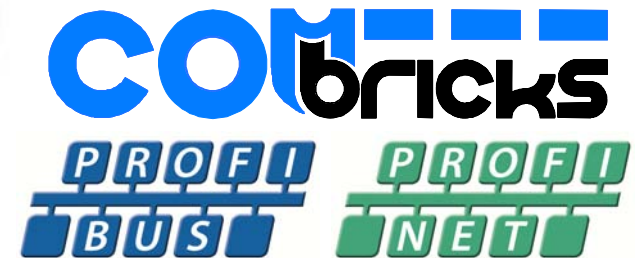


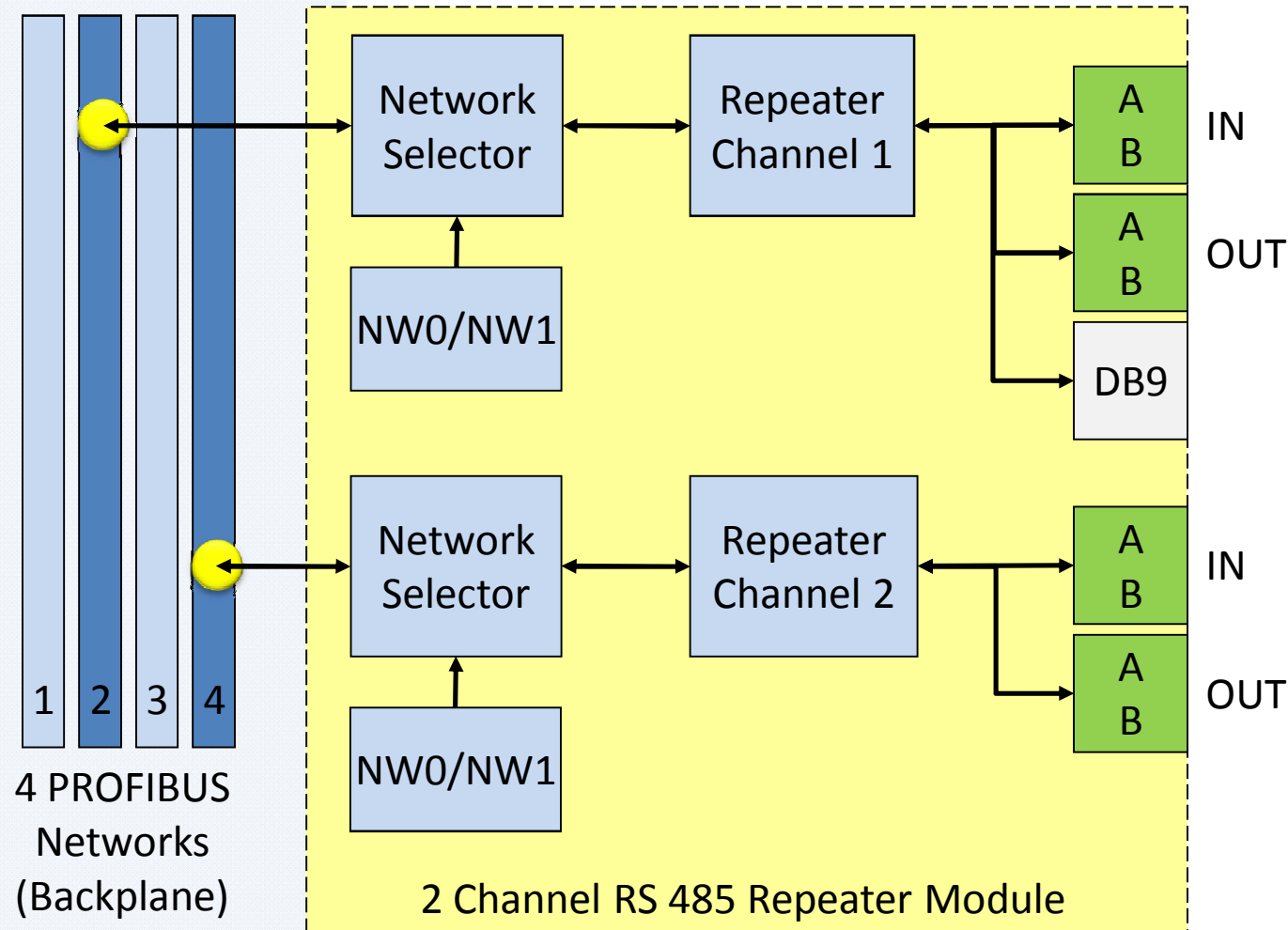
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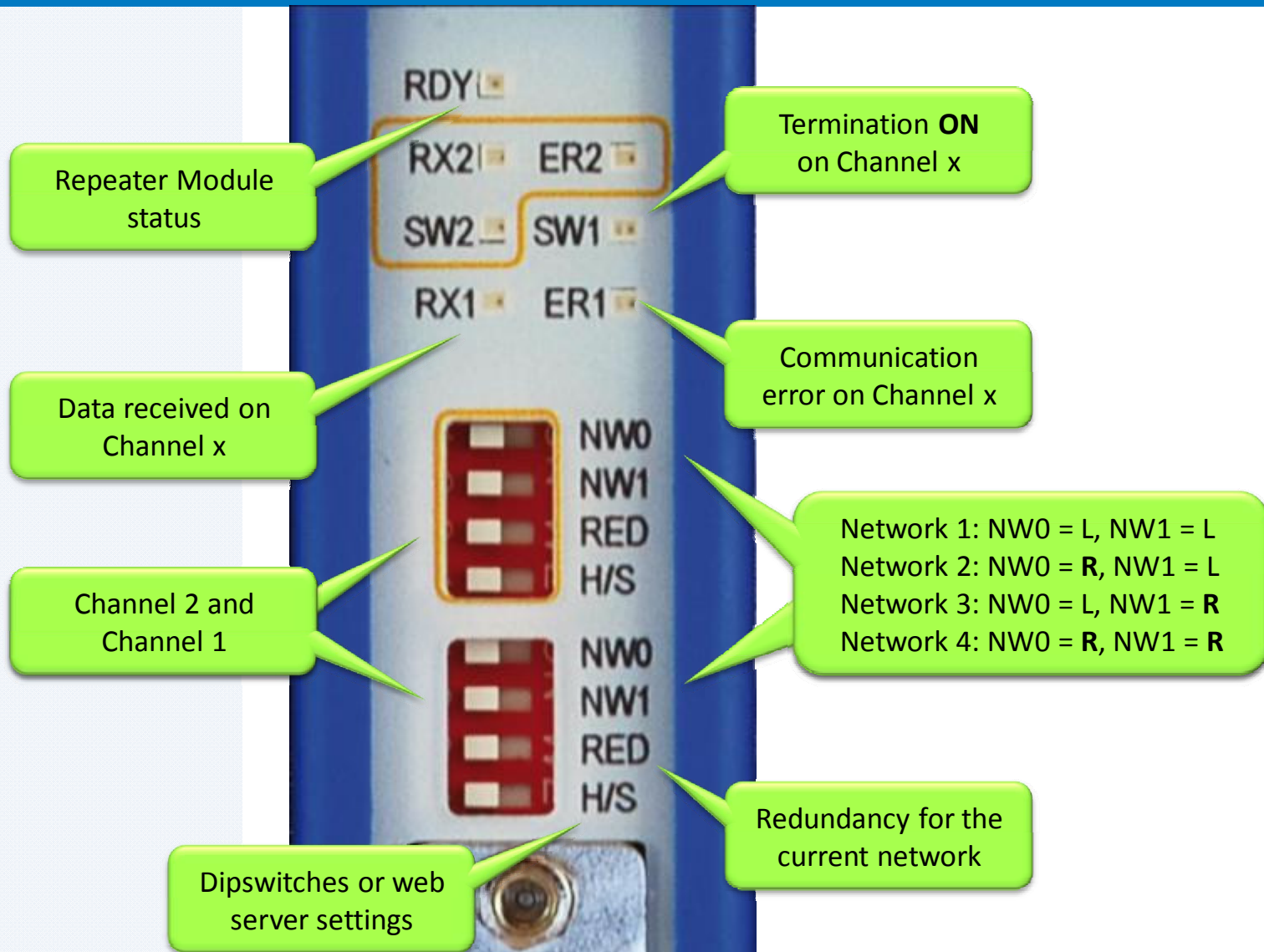


COMbricks – Repeater Modules

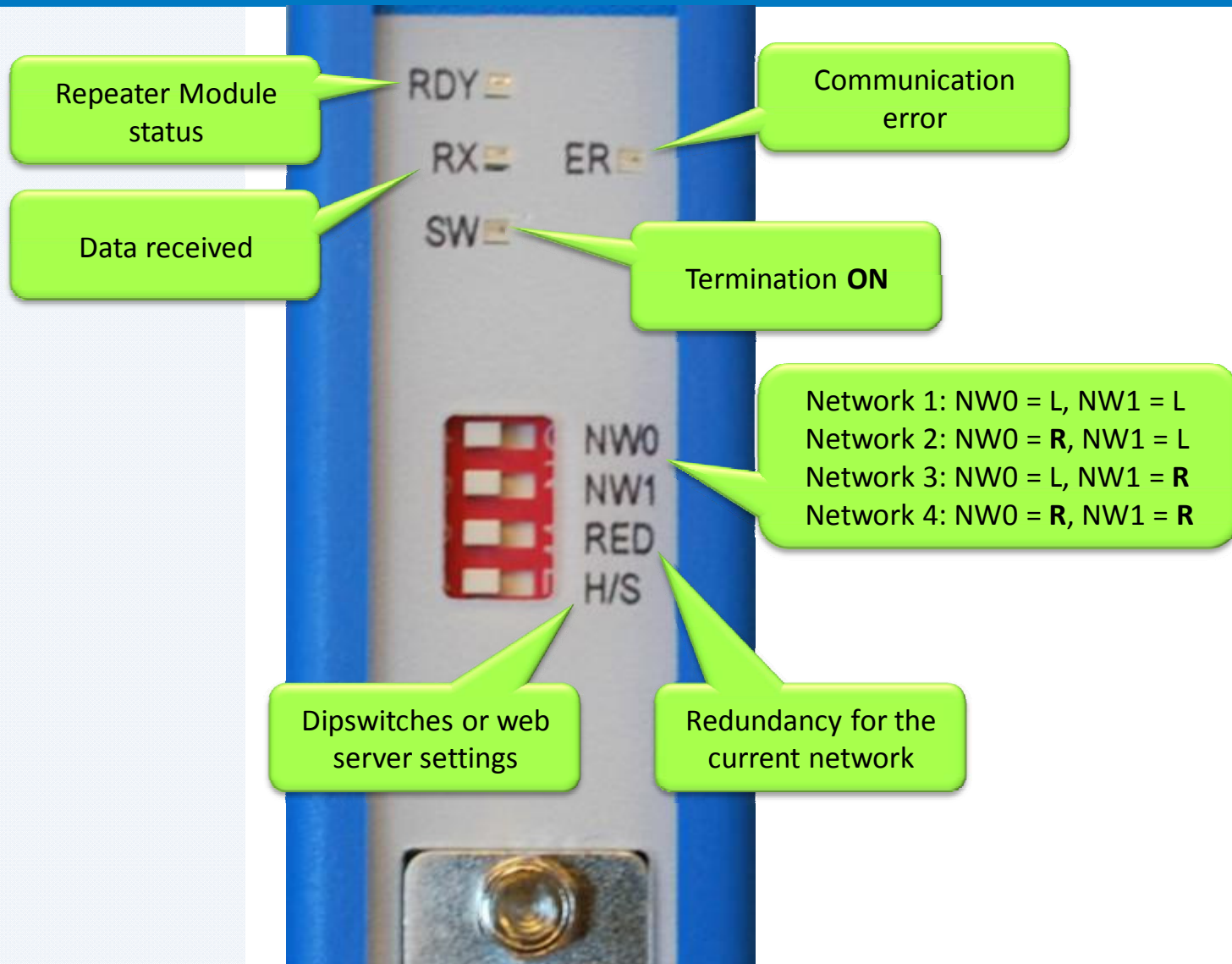
More channels on a module



Switches and LEDs (2CH)

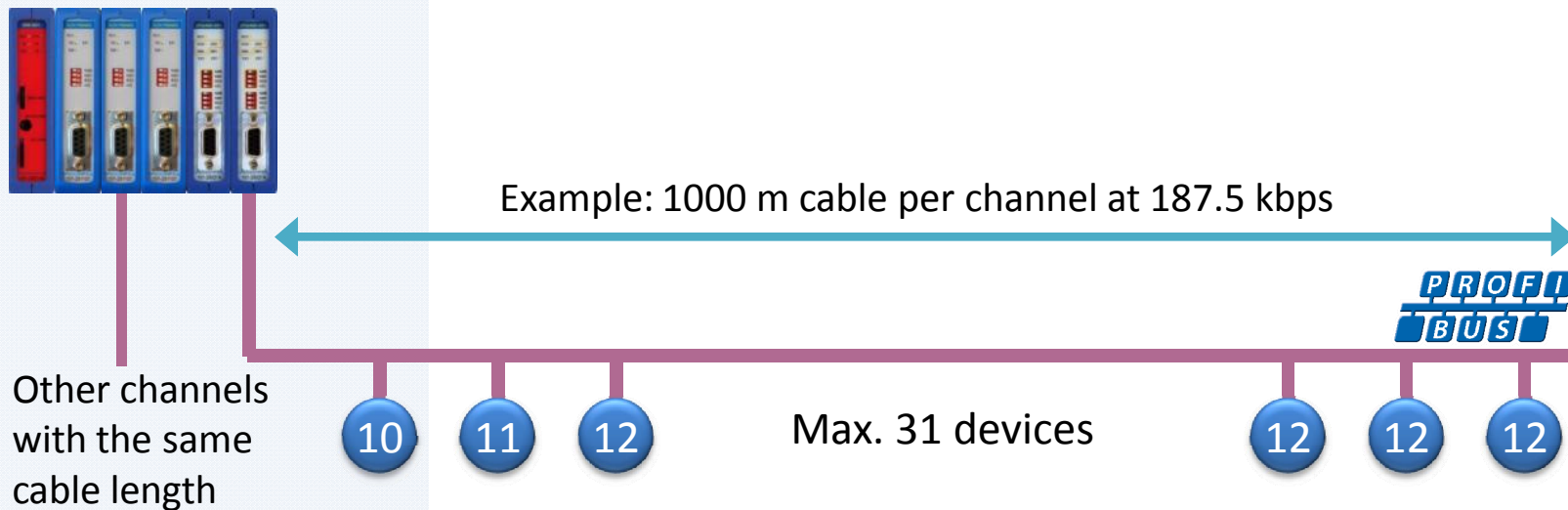


Switches and LEDs (1CH)



Segment rules

Baudrate (kbps)	9.6	19.2	45.45	93.75	187.5	500	1500	3000	6000	12000
Segment length (m)	1200	1200	1200	1200	1000	400	200	100	100	100



Cable specification



Parameter	Value
Wires	2 (twisted)
Impedance	150 Ohm (3 to 20 MHz)
Capacity	≤ 30 pF/m
Loop resistance	≤ 110 Ohm/km
Wire diameter	≥ 0.64 mm
Wire area	≥ 0.32 mm ²
Shielding resistance	≤ 9.5 Ohm/km

Lower shielding resistance -> better EMC quality.

Cable types

The repeater modules support most PROFIBUS cable types.

- Robust cable
- Food cable
- Ground cable
- Trailing cable
- Festoon cable
- Fire and heat cable
- Flexible cable
- Shipboard cable
- Rodent protection cable



Trailing cable



Flexible cable



Festoon cable



Food cable



Shipboard cable



Robust cable



FRNC cable

Repeater module (2 channels)



Name	2 Channel RS 485 Repeater Type 1
Order code	101-201102
Description	2 Channel standard RS 485 PROFIBUS repeater module for 12 Mbps with diagnostic LEDs and redundancy feature. Bus connection is utilized by screw terminals and additional DB9 connector.
Baudrate	12 Mbps (auto detect)
Bus channels	2 (transparent)
Connectors	4 Screw terminals (for 2 channels A, B, SH) 1 Sub-D (1-on-1 with screw terminals of channel 2)
Termination	Yes (switch for each channel)
Redundancy	Yes (switchable)
Backplane network	Yes (4 PROFIBUS networks selectable with switches)
Others	1) Same high quality electrical bus circuitry as the ProfiHub and repeater B1 (+ galvanic isolation). 2) Diagnostic LEDs (Error, Rx data, Termination ON).



Repeater module (1 channel)



Name	1 Channel RS 485 Repeater Type 1
Order code	101-201101
Description	1 Channel standard RS 485 PROFIBUS repeater module for 12 Mbps with diagnostic LEDs and redundancy feature. Bus connection is utilized by screw terminals and additional DB9 connector.
Baudrate	12 Mbps (auto detect)
Bus channels	1 (transparent)
Connectors	2 Screw terminals (A, B, SH) 1 Sub-D (1-on-1 with the screw terminals)
Termination	Yes (switch)
Redundancy	Yes (switchable)
Backplane network	Yes (4 PROFIBUS networks selectable with switches)
Others	1) Same high quality electrical bus circuitry as the ProfiHub and repeater B1 (+ galvanic isolation). 2) Diagnostic LEDs (Error, Rx data, Termination ON).



SCOPE repeater module (1 ch)

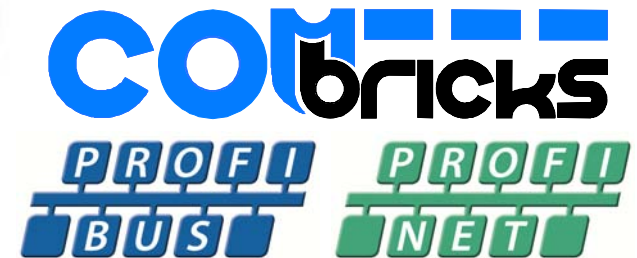


Name	1 Channel RS 485 SCOPE Repeater Type 1	
Order code	101-201210	
Description	1 Channel RS 485 PROFIBUS SCOPE repeater module with integrated quality-oscilloscope for 12 Mbps with diagnostic LEDs and redundancy feature. Bus connection is utilized by screw terminals and additional DB9 connector.	
Oscilloscope	Frequency: 192 MS/s Resolution: 50 mV Differential range: -6.436..6.436 V	
Baudrate	12 Mbps	(auto detect)
Bus channels	1	(transparent)
Connectors	2 Screw terminals (A, B, SH) 1 Sub-D (1-on-1 with the screw terminals)	
Termination	Yes	(switch)
Redundancy	Yes	(switchable)
Backplane network	Yes	(4 PROFIBUS networks selectable with switches)



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COMbricks – Repeater Modules