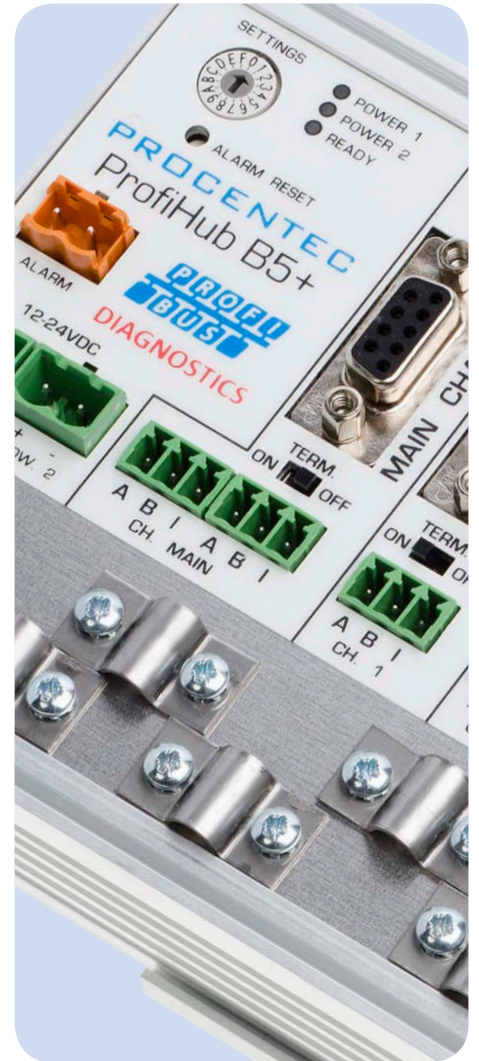
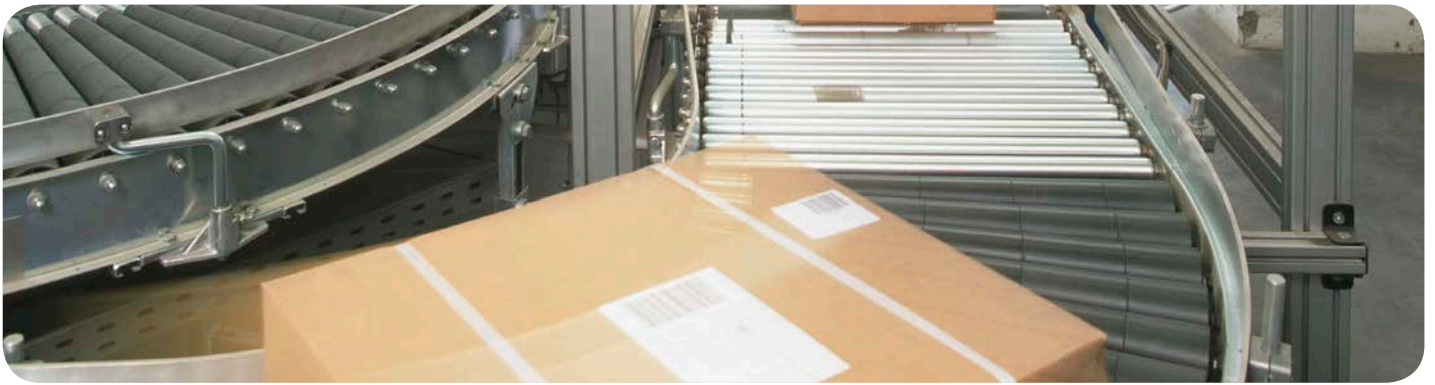


# PROCENTEC



## ProfiHub

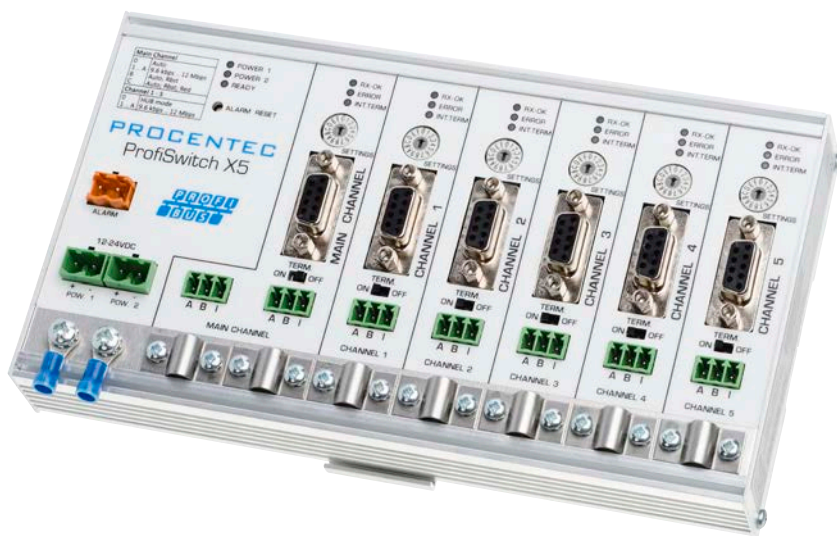
Multi-Channel PROFIBUS Repeaters



## ProfiHub













The well-known ProfiHub family is a collection of (multi-channel) PROFIBUS DP network components to create reliable star/tree networks and long multi-device segments. They are deployed in many applications worldwide and available in different varieties to comply with the requirements of the end-user.

The ProfiHub and ProfiSwitch are essential to obtain better control during maintenance and upgrading of the network. The use of these network components results in lower operational costs and the optimisation of the entire production process. They are perfect economic solutions to integrate reliable segments in high-speed DP networks. They are equipped with galvanic isolated transparent repeaters. This allows network structures with extended segments that individually can handle a maximum of 31 devices and a length according to the used baud rate. Each repeater blocks short circuits and other bus problems.



## Features

- Dynamic segments to devices
- Star, tree and bus structured networks
- Pull/Plug motor control centers
- Barrier for non galvanic isolated equipment
- EMC sensitive applications

Overview ProfiHub Family	Terminators		Repeaters: Copper Only							Repeaters: Fiber Optic/Copper		
	Active IP-20 Terminators		1 Channel		2 Channels	5 Channels				FO-Multi-Mode Ring	FO-Multi-Mode/Copper (No Ring)	
												
Product name	Terminator T1	Terminator T1 Pepper	B1 Repeater	D1 Repeater	ProfiHub B2+R	ProfiHub A5	ProfiHub B5+R	ProfiHub B5+RD	ProfiSwitch X5	ProfiHub F1	ProfiHub B2FO2+	ProfiHub B4FO2+
Ordercode	101-00211A	101-00212A	101-00201A	16121	17210R	16013	17020R	17020RD	17030X	123-022MM01-ST	17220	17420
Channels	1 galvanically isolated channel	1 galvanically isolated channel	2 galvanically isolated channels	2 galvanically isolated channels	3 galvanically isolated channels	6 galvanically isolated channels	6 galvanically isolated channels	6 galvanically isolated channels	6 galvanically isolated channels	2 channel fiber optic and 1 channel RS-485	4 channels, 2 galvanic isolated RS-485 channels and 2 Fiber Optic channels	6 channels, 4 galvanic isolated RS-485 channels and 2 Fiber Optic channels
Redundant power supply	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
Bus redundancy					✓		✓	✓	✓	✓	✓	✓
Diagnostic slave device								✓				
Classification	IP 20	IP 20	IP 20	IP 66	IP 20	IP 65	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Alarm contact				✓	✓		✓	✓	✓		✓	✓
High integrity telegram checking				✓	✓		✓	✓	✓	✓	✓	✓
Connection speed	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)	9.6 Kbps .. 12 Mbps (automatic detection)
Transparent for all PROFIBUS DP protocols (incl. PROFIsafe, MPI and PROFIdrive)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connectors	Screw terminals and DB9	Screw terminals	Screw terminals	M12	Screw terminals and DB9	Screw terminals	Screw terminals and DB9	Screw terminals and DB9	Screw terminals and DB9	Screw terminals fiber and DB9	Screw terminals and DB9	Screw terminals and DB9
Power supply	Operating voltage: 24 VDC Absolute max. rated voltage: 19 .. 28 VDC	Operating voltage: 24 VDC Absolute max. rated voltage: 19 .. 28 VDC	Operating voltage: 24 VDC Absolute max. rated voltage: 19 .. 28 VDC	Operating voltage: 12 .. 24 VDC Absolute max. rated voltage: 9 .. 31 VDC	Operating voltage: 12 .. 24 VDC Absolute max. rated voltage: 9 .. 31 VDC	24 VDC	Operating voltage: 12 .. 24 VDC Absolute max. rated voltage: 9 .. 31 VDC	12 .. 24 VDC	Operating voltage: 12 .. 24 VDC Absolute max. rated voltage: 9 .. 31 VDC	12 .. 30 VDC	Operating voltage: 12 .. 24 VDC Absolute max. rated voltage: 9 .. 31 VDC	Operating voltage: 12 .. 24 VDC Absolute max. rated voltage: 9 .. 31 VDC
Operating temperature	-20 .. 60 °C	-20 .. 60 °C	-20 .. 60 °C	-25 .. 70 °C	-25 .. 70 °C	-40° .. 75 °C	-25° .. 70 °C	-25° .. 70 °C	-25° .. 70 °C	-40 .. 70 °C	-25 .. 70 °C	-25 .. 70 °C
No limit in cascading			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
No address required	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Integrated termination facilities	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bit fixing			✓	✓	✓	✓	✓	✓	✓		✓	✓
Certifications												
• UL listed	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
• CE declared	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• FCC verified	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
• DNV certified							✓	✓				
Dimensions L x W x H	106 x 55 x 37 mm	106 x 55 x 33 mm	106 x 55 x 37 mm	169 x 79 x 29 mm	102 x 111 x 32 mm	184 x 213 x 95 mm	167 x 113 x 35 mm	167 x 113 x 33 mm	207 x 113 x 35 mm	115 x 61 x 113 mm	125 x 111 x 29 mm	163 x 111 x 29 mm
Extras	DB9 monitoring port	Non DP Cable	DB9 monitoring port	M12 monitoring port	ABB RLM-01 compatible	230/110 VAC option	Redundancy	Redundancy and build-in diagnostics	Customizable baudrate per channel	5 km cable length (Multimode cable G62.5 (50) / 125µm 13dB optical budget @ 1310 nm)	3 km cable length (Multimode cable G62.5 / 125 (OM1) - 850 nm)	3 km cable length (Multimode cable G62.5 / 125 (OM1) - 850 nm)





## About PROCENTEC

PROCENTEC is an independent company, concentrating all its products and services on PROFIBUS and PROFINET technology. Our main business is the development of automation products which are exported through our worldwide distributor network. The technology and solutions that we offer enable our customers to successfully participate in the world of industrial automation. We take pride in possessing in-depth knowledge of fieldbus requirements in factory and process automation and the expertise to create innovative solutions for these areas.

### Products

- Atlas
- ComBricks
- ProfiTrace
- ProfiHub
- VPSwitch
- VPGate
- PROFINET tools
- Cables and connectors

### Services

- On-site & Online Support
- Network Audit
- Network Certification
- Consultancy
- Testlab & Democenter
- Competence Center

### Training courses

- PROFIBUS training courses
- PROFINET training courses
- Product training courses

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