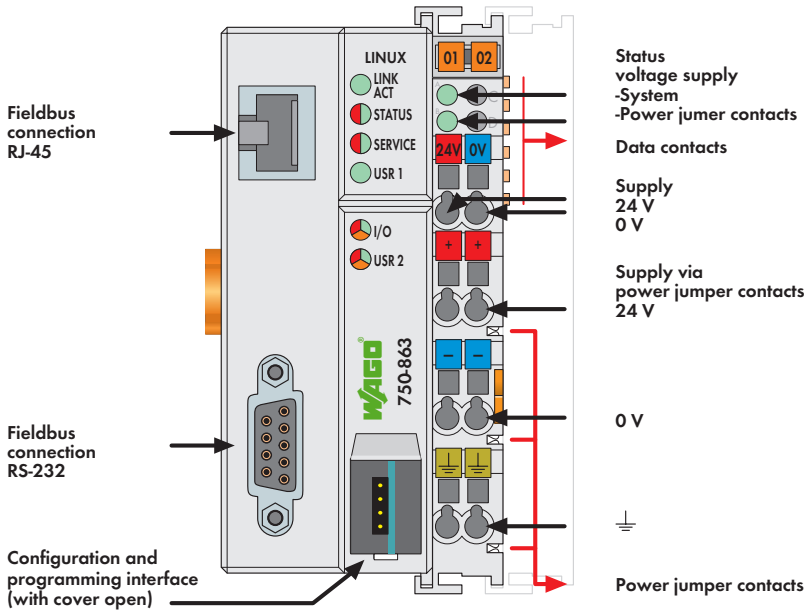
750-863

PLC - Linux Programmable Fieldbus Controller, RS-232

32-bit CPU



With the Linux ETHERNET PLC, a platform is now available for a high-level language software running on an open operating system.
The Linux operating system (kernel version 2.6) is tailor-made for the "embedded" controller, providing efficient software development from PC applications. Free availability of Linux source code and a license-free operating system are the major advantages of the Linux operating system.
The Linux ETHERNET Controller is suitable for a wide range of applications currently using specialty hardware or small PC systems.
The controller has a battery-backed RTC and 32-bit multitasking CPU.
The integrated RS-232 interface communicates with external devices.
Software development is also commonly performed in a Linux environment and supported by illustrative examples.

Support:
Owing to the complexity of the open Linux ETHERNET Controller and WAGO-I/O-IPC, the large number of application options and potential error sources, WAGO can only provide hardware support for these versions. Users must contact our product partners for software support if required, which may incur additional charges.

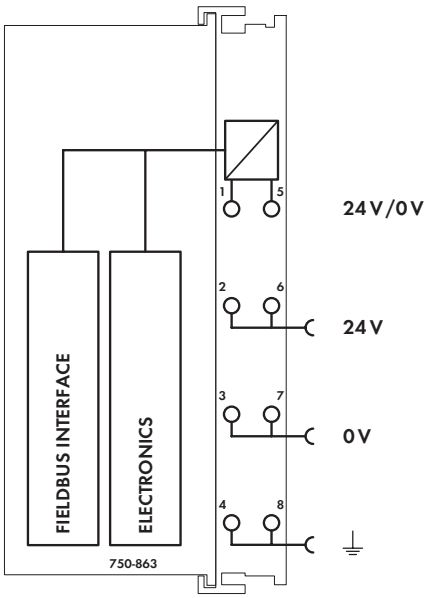
Description	Item No.	Pack. Unit
Linux ETHERNET Controller, RS-232	**750-863**	1

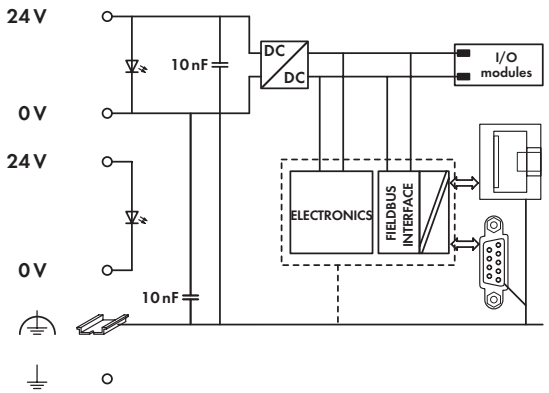
Accessories	Item No.	Pack. Unit
Linux® Controller Distribution CD	759-914	1
Miniature WSB Quick marking system		
plain	**248-501**	5
with marking	see pages 352 ... 353	

Approvals	Also see "Approvals Overview" in Section 1
Conformity marking	CE
cULus UL 508	

System Data	
System data ETHERNET:	
No. of controllers connected to Master	limited by ETHERNET specification
Transmission medium	Twisted Pair S-UTP 100 Ω Cat. 5
Max. length of fieldbus segment	100 m between hub station and 750-863; max. length of network limited by ETHERNET specification
Baud rate	10/100 Mbit/s
Buscoupler connection	RJ-45
Protocols	MODBUS/TCP, HTTP, BootP, DHCP, FTP
System data Serial:	
Transmission medium	Shielded Cu cable 2 (4) x 0.25 mm²
Max. length of fieldbus segment	15 m depending on baud rate/cable (at 19,200 baud)
Baud rate	9,600 baud ... 115,200 baud
Buscoupler connection	1 x D-Sub 9; socket

Linux® is a registered trade mark of Linus Torvalds.





Technical Data	
Number of I/O modules	64
with bus extension	250
Fieldbus	
Max. input process image	2 Kbytes
Max. output process image	2 Kbytes
CPU	32-Bit-Risc ARM7TDMI
RAM memory	16 Mbyte SDRAM, 32 Kbyte NOVRAM
Flash	8 Mbytes
EEPROM	4 Kbytes
Operating system	Linux (Kernel version 2.6)
Power supply	24 V DC (-15 % ... +20 %)
Max. input current (24 V)	500 mA
Efficiency of the power supply	87 %
Internal current consumption (5 V)	300 mA
Total current for I/O modules (5 V)	1700 mA
Isolation	500 V system/supply
Voltage via power jumper contacts	24 V DC (-15 % ... +20 %)
Current via power jumper contacts (max.)	10 A DC

General Specifications	
Operating temperature	0 °C ... +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Dimensions (mm) W x H x L	51 x 65 x 100
	Height from upper-edge of DIN 35 rail
Weight	181 g
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	acc. to IEC 60068-2-27
Degree of protection	IP20
EMC: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: CE - emission of interference	acc. to EN 61000-6-3 (2007)