

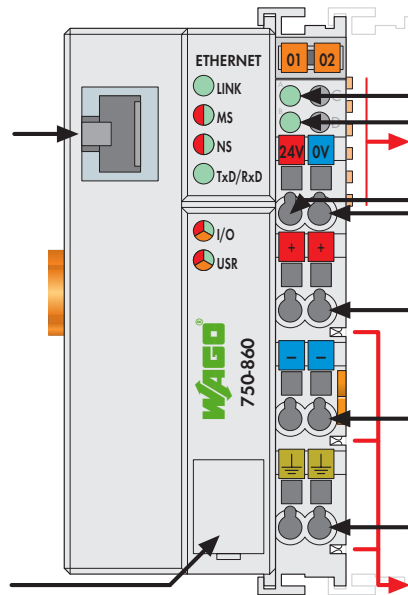
# PLC - Linux Programmable Fieldbus Controller

32-bit CPU



Fieldbus connection RJ-45

Configuration interface



Status voltage supply  
-System  
-Power jumper contacts  
Data contacts

Supply  
24 V  
0 V

Supply via power jumper contacts  
24 V

0 V



Power jumper contacts

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.

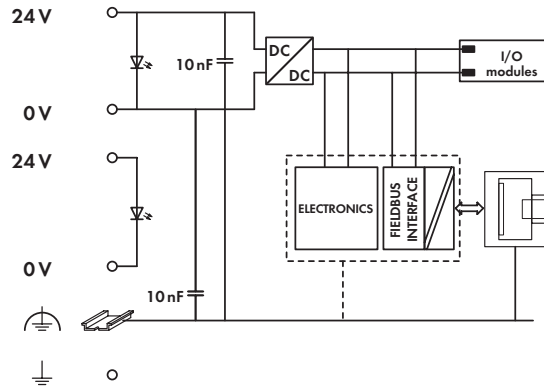
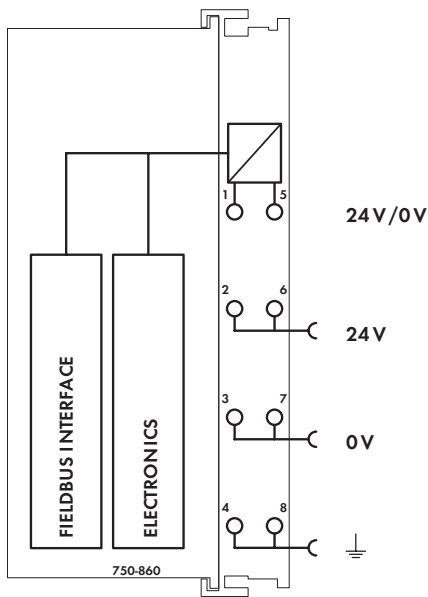
The Linux ETHERNET Controller is suitable for a wide range of applications currently using specialty hardware or small PC systems.

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	750-860	1
<b>Accessories</b>		
Linux® Controller Distribution CD	759-914	1
<b>Miniature WSB Quick marking system</b>		
 plain	248-501	5
with marking	see pages 352 ... 353	
<b>Approvals</b>		
	Also see "Approvals Overview" in Section 1	
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 60079-0, -15	I M2 / II 3 GD Ex nA IIC T4	
EN 61241-0, -1		

System Data	
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 750-860; max. length of network limited by ETHERNET specification
Baud rate	10/100 Mbit/s
Buscoupler connection	RJ-45
Protocols	MODBUS/TCP, HTTP, BootP, DHCP, DNS, SNTP, FTP, NFS
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	4 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 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	181.3 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 61000-6-4 (2007)