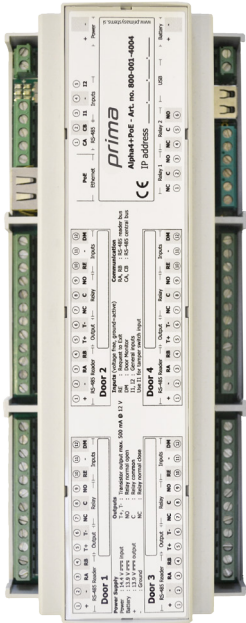


# Datasheet

The Alpha central consists of a two or four door central with optional PoE, USB host, two extra inputs and two extra relays outputs



Alpha4+PoE

Technical data	
Supply voltage without back-up battery	14.4 VDC +/- 10%
Supply voltage with back-up battery	Between 13.9 VDC and 14.6 VDC
Central's consumption without external loads	150mA at 14.4 VDC (2W)
Maximal consumption	60 W
Battery backup	12 VDC, 2.3 Ah
Real time clock backup capacitor	Minimum 72h
Operating temperature	-20 °C to 85 °C, If used with battery backup, please check battery limitations.
Hardware	536MHz CPU with 256MB RAM, 256 MB Flash
Software data	
Pre-installed with	NovaSimpli
Compatible with	All Nova Softwares
Software	Linux, XML, SQL
Users	Up to 100.000
Events log	Up to 1.000.000
Ports	
Communication	1 x RJ45 10/100 MB Ethernet port 1 x RS485 central communications port**
Readers	2 or 4 x RS485 ports* supports up to 4 or 8 readers using MODBUS protocol
Outputs	2 or 4 x lock outputs each as relay and transistor MOSFET output
Inputs	2 or 4 x requests to exit 2 or 4 x door monitors 2 x auxiliary input
Port specification	
Maximal output for each reader port	700mA at 13.9VDC
Maximal lock output	Relay: max. 30VDC, 2A Transistor MOSFET: 13.9 VDC at max. 700mA
Maximal overall power consumption; all readers and all transistor outputs	4A at 13.9 VDC (55.6W) on external power unit
Inputs	Voltage free, Galvanic isolation is provided on all input channels with opto-couplers
Tamper switch	Use auxiliary input

\* For maximal reading distance please check a table in the installation diagram. Use AWG 23 (0.6 mm) CAT6 cable or use AWG 24 (0.5 mm) CAT5 cable

\*\* Connect maximal 3 centrals on one RS-485 line

Housing	
Size housing	W: 91mm × L: 213mm × H: 62mm
Size system	W: 112mm × L: 287mm × H: 361mm
Suitable for Din-rail	Yes (product is 12 DIN)
Central housing	Self-extinguishing blend PC ABS
System housing	Acrylonitrile Butadiene Styrene (ABS)
Color	Grey
Weight	330 g

### Add-on for Alpha 2+ and 4+

Ports	
Communication	1 x USB host port
Outputs	2 x auxiliary output relays
Alarm output	Use auxiliary output
Port specification	
Auxiliary output relays	Max. 30VDC, 2A

### Add-on for Alpha 2+ PoE and 4+ PoE

Technical data	
PoE+	Powers up to 25 W, according to standard for PoE+ IEEE 802.3at.
Ports	
Communication	1 x USB host port
Outputs	2 x auxiliary output relays
Alarm output	Use auxiliary output
Port specification	
Maximal overall power consumption; all readers and all transistor outputs	1.8A at 13.9 VDC (25W) on PoE+