Datasheet

version 1.0

Industrial PC ARK

Industrial PC for DALI bus control

Installation in a switchboard

4x RS-232 serial port to which the DALI232 converter connects

Optional 5 screens for scene control

calling DALI scenes, introducing custom scenes containing a sequence of DALI commands

optional screens for direct control of DALI devices and DALI groups

ability to switch between language localisations

DIN mounting

Technical Specifications				
bus			DALI	
power supply			9-36 (typical 24)	V
typical power consumption			8	W
maximum current			4	A
connectors	computer network		Ethernet 10/100Base-T	
	serial port		COM1-4 (RS-232/RS485RS/422)	
	USB port		4xUSB2.0	
serial connector wiring	RS-232	pin wiring	2-Rx, 3-Tx, 5-zem	
		DIP settings	1,2,6 - On, 3,4,5 - Off	
	RS-485	pin wiring	2-D+, 3-D-, 5-ground	
		DIP settings	3,4 - On, 1,2,5,6 - Off	
degree of coverage			IP65 front panel	
ambient working temperature			0 ÷ 50	°C
storage temperature			-40 ÷ 85	°C
weight			2,3	kg
dimensions (w x h x d)			264,5 x 68,4 x 133	mm

Functions

ARK is industrial for controlling devices designed for DALI bus. Connection to the DALI bus is made exclusively via the **DALI232** converter from Foxtron, or DALInet and DALI2net converters. These must be ordered separately for the touch panel.

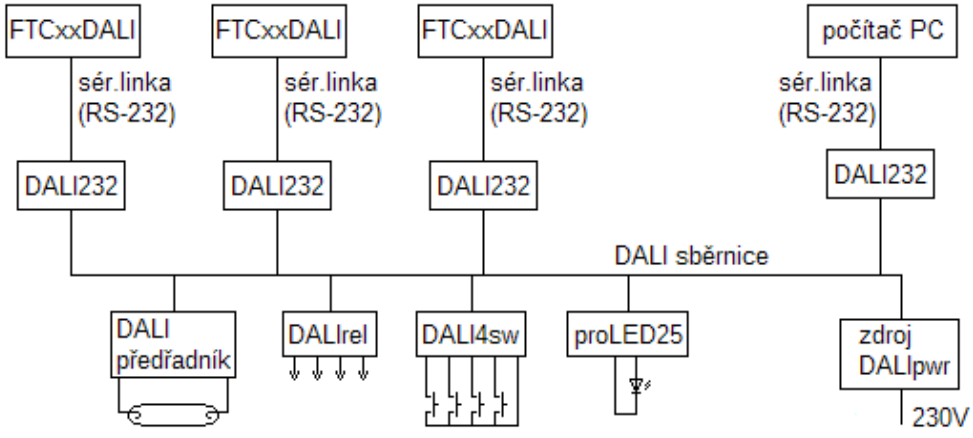
PC allows full user configuration. Through DALI devices, it allows to control switched or dimmable circuits (most often intended to control lighting) connected to these devices.

The PC allows you to control individual DALI devices, DALI groups and DALI scenes into which DALI devices are integrated. It also allows to send any sequence of DALI commands on the DALI bus, which are introduced into the so-called extended scenes. It offers a maximum of 5 screens for control, which can be set to the options indicated. In addition, the DALI device control screen also allows to display and identify possible device faults, as the computer can periodically check their status.

DALI scenes and extended scenes can be called up by a button from their screen, automatically on time or at dawn or dusk, or when the DALI button is turned on or off. Scenes can be linked and cycled between each other in time. It is also possible to condition their execution on the state of the DALI button.

PCs in the Advanced version are interconnectible via DALI bus, so one panel can monitor the activity of another and display e.g. the last DALI scene called up. The touch panel control program can also be installed separately on a Windows PC, which can then also be connected to the DALI bus as one of the control points.

Schematic wiring of touch panels and industrial PCs:



Connecting the serial port connector

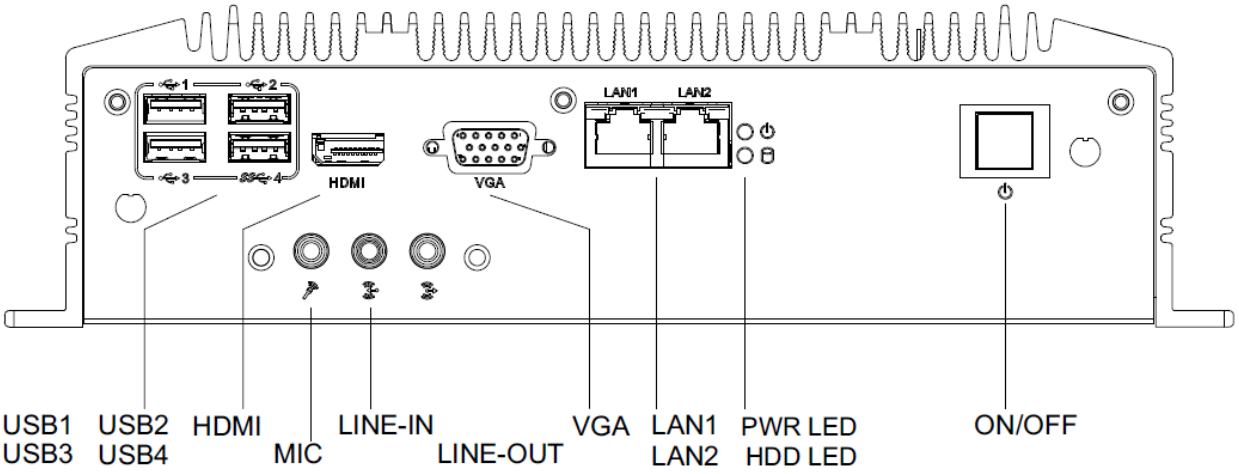
RS -232

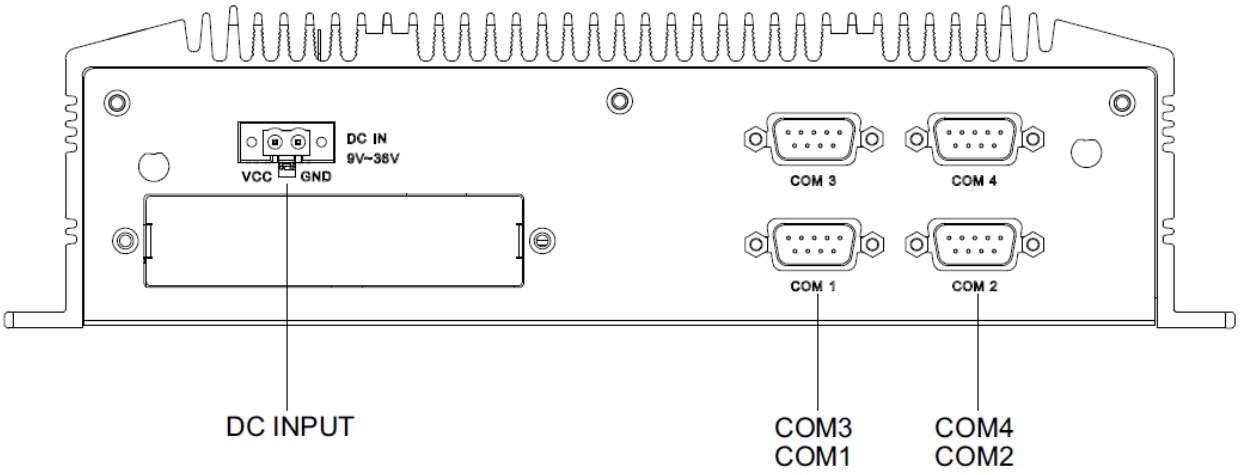
Pin	Name	Function	Direction
1	DCD		input
2	RXD	data receiving	input
3	TXD	data sending	output
4	DTR	readiness	output
5	GND	shared conductor	
6	DSR	readiness	input
7	RTS	data confirmation	output
8	CTS	data confirmation	input
9	RI	incoming data notification	input

RS-485

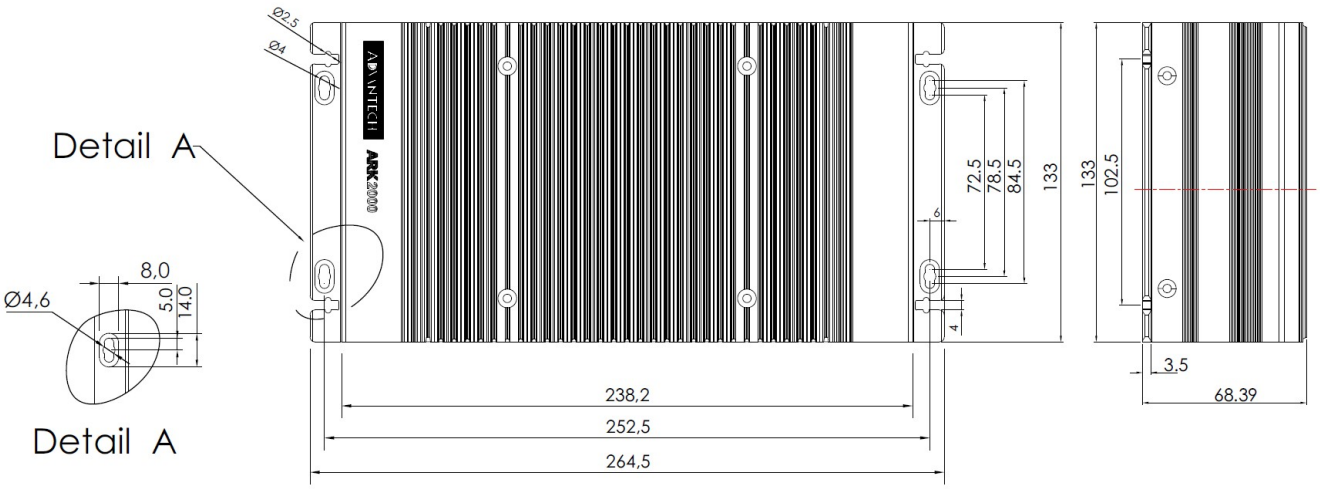
Pin	Name	Function	Direction
1	NC	not connected	
2	DATA+	data	in/out
3	DATA-	data	in/out
4	NC	not connected	
5	GND	shared conductor	
6	NC	not connected	
7	NC	not connected	
8	NC	not connected	
9	NC	not connected	

Wiring connection





Dimensions (mm)



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