



SBCPRO-X51 simplifies modern industrial Computing. A set of M.2 expansion modules extends the use case of a standard 3.5" SBC to infinite use cases. The USB-C M.2 module provides the possibility to connect to a display with a single USB-C cable providing power, DisplayPort and touch signal. The V-by-One M.2 module allows to connect large size 4K screens. SBCPRO-X51 is powered by an Intel® Amston Lake-N Atom® x7211RE CPU and can be operated with Windows 11 IoT LTSC. SBCPRO-X51 has been designed to meet industrial conditions, running 24/7 at an operating temperature from -20 to +80°C. SBCPRO-X51 perfectly integrates into any IoT network through 2x 2.5Gbit Ethernet ports or Wi-Fi.

Specification

Processor	CPU	Intel® Amston Lake-N Atom® x7211RE, 2C	
	Frequency	up to 3.20GHz	
Memory	RAM	1x SO-DIMM with up to 16GB DDR5 4800 MT/s	
Graphics	Processor Graphics	Intel® UHD Graphics	
	DisplayPort	DP 1.2 with max. 3840 x 2160@60Hz	
	USB-C	Alternate mode DP 1.2 with max. 3840 x 2160@60Hz (optional)	
	eDP	1x eDP	
	V-by-One	1x (optional)	
Storage/ Expansion	M.2	1x M.2 M key 2242 for Storage 1x M.2 2230 for Wi-Fi 1x M.2 Slot for SBCPRO-X51 expansion modules	
	Rear I/O	USB	1x Type-C USB 3.2 Gen 1x1 2x USB 3.2 Gen1x1
		Ethernet	2x 10/100/1000/2500 Mbit/s
DisplayPort		1x DP++	
Audio		1x Line-Out, 1x Mic-in	
Power		24V DC-IN	
Internal I/O	USB	2x USB 2.0	
	Serial Port	2x RS-232/422/485 switchable in BIOS	
	I2C	1x	
	GPIO	4x IN& 4x OUT w.5V/1A	
Other	TPM	2.0	
	Watchdog Timer	Yes	
	Audio	6W AMP	
General	Operating Temperature	-20...+80°C	
	Storage Temperature	-20...+80°C	
	Operating humidity	0%...90% Relative Humidity, non-condensing	
	Storage humidity	5%...95% Relative Humidity, non-condensing	
	Dimensions	146mm (L) x 102mm (W) (5.7" x 4.0")	
	Power consumption	tbd.	
	Weight	137g board only, 447g with Heatsink	
	Certifications	CE, FCC, UKCA	
Operating System	Windows 11 IoT LTSC		

Ordering Information

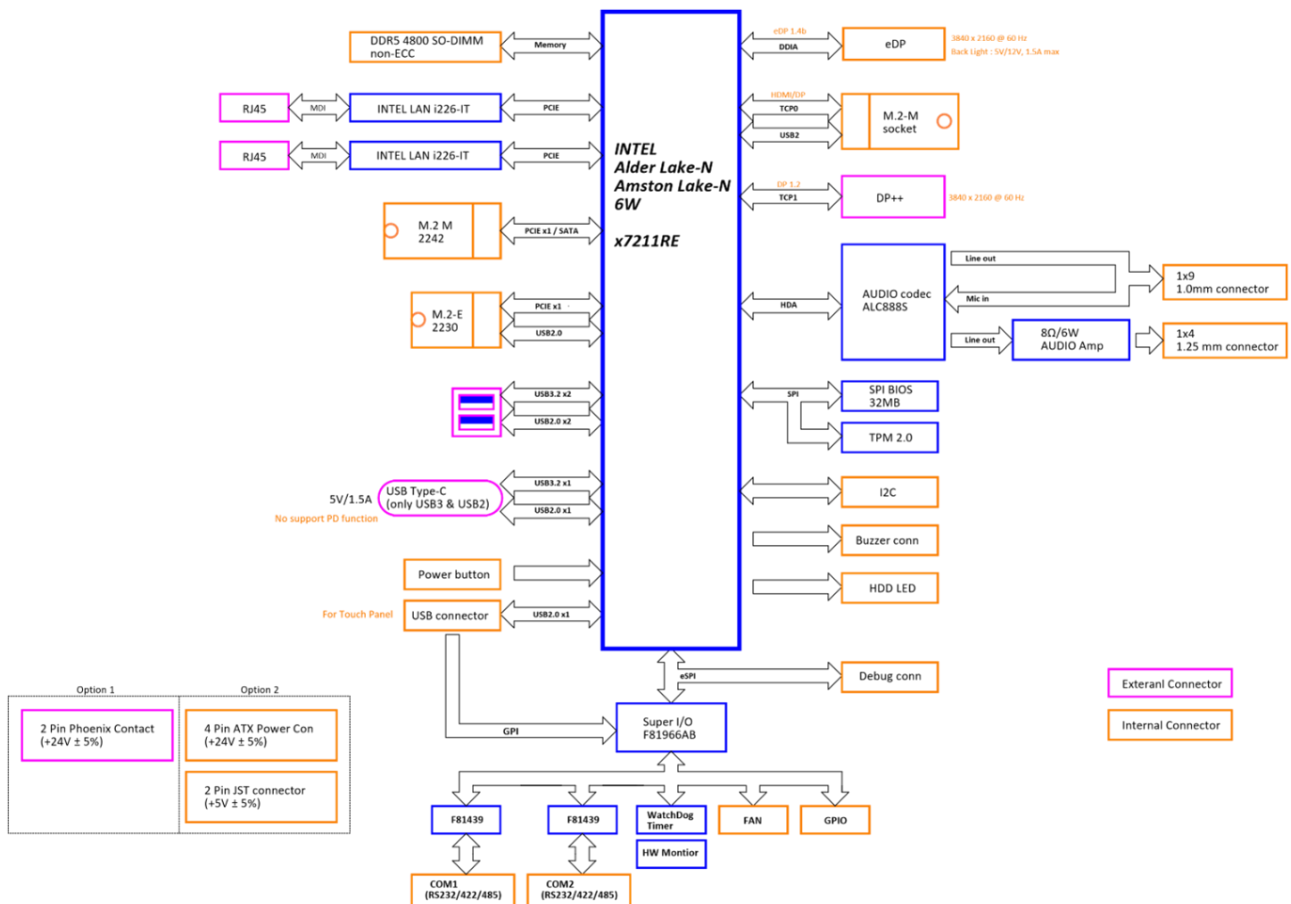
Order Nr.	Article	Description
PC-61-737	SBCPRO-X51-01	3.5" SBC w. x7211RE 25V Phoenix
PC-61-736	SBCPRO-X51-00	3.5" SBC w. x7211RE 5VSB ATX, V-by-One (on request)

Accessories



Article	ACCS-EMB-M2VBO-00	ACCS-EMB-M2USBC-00	ACCS-EMB-HSI-X51-00
Order Nr.	PC-61-739	PC-61-740	PC-61-741
Description	M.2 to V-by-One expansion module with internal cables	M.2 to USB-C Alt. PD expansion module with internal cable	Heatsink for SBCPRO-X51

Block Diagram



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