



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 1.4 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
	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++
Rear I/O	Audio	1x Line-Out, 1x Mic-in
	Power	24V DC-IN
	USB	2x USB 2.0
	Serial Port	2x RS-232/422/485 switchable in BIOS
	I2C	1x
Internal I/O	GPIO	4x IN& 4x OUT w.5V/1A
	TPM	2.0
	Watchdog Timer	Yes
	Audio	6W AMP
Other	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

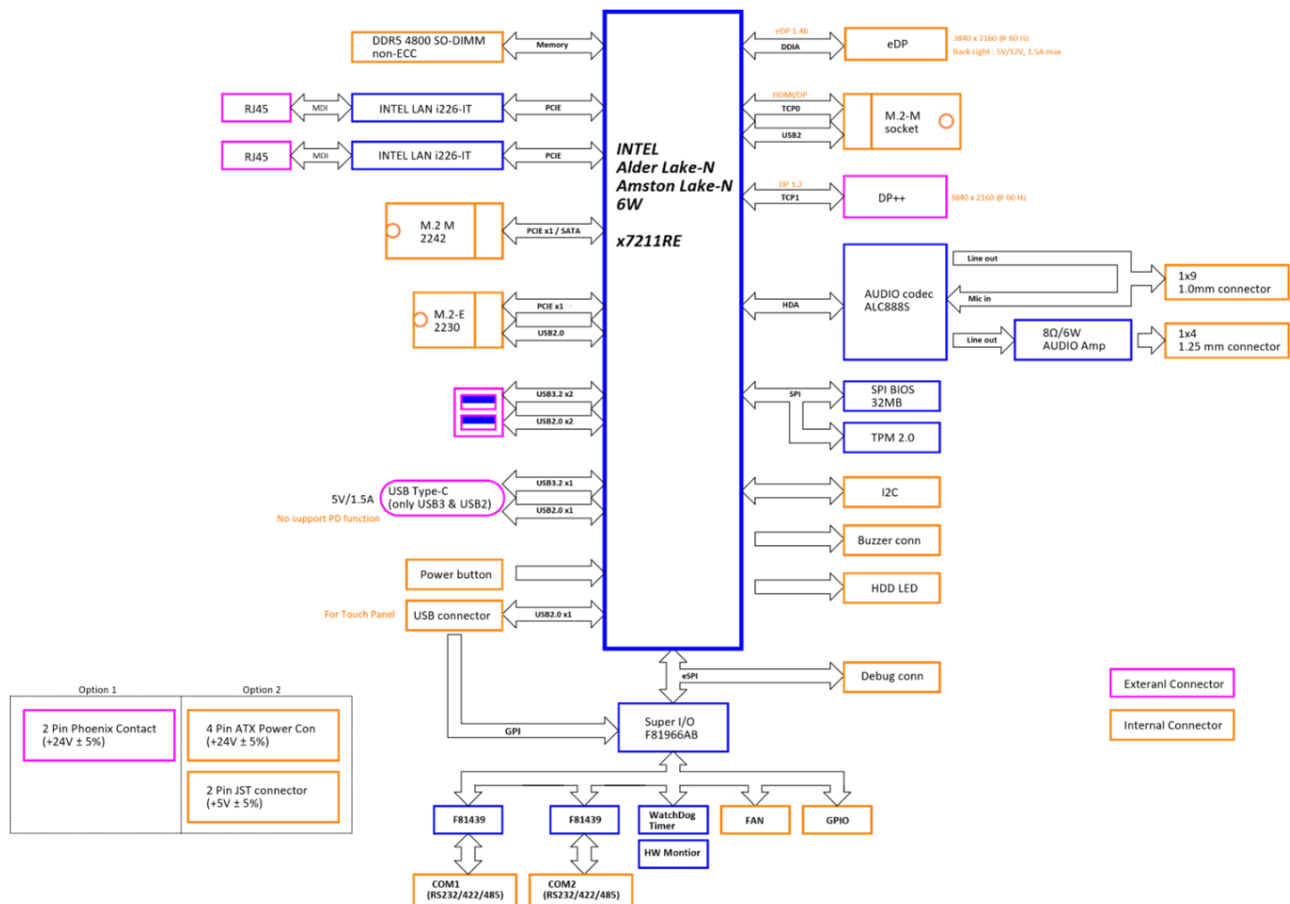
Order Nr.	Article	Description
PC-61-737	SBCPRO-X51-01	3.5" SBC w. x7211RE 25V Phoenix
PC-61-736	SBCPRO-X51-00	3.5" SBC w. x7211RE 5VSB ATX, V-by-One (on request)

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



Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:



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