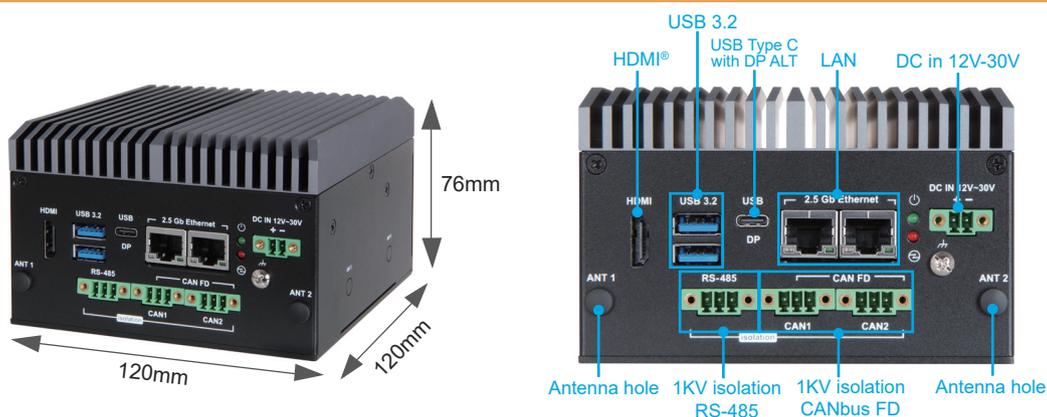


LYNX-812D

Robust, Fanless Embedded System Featuring Intel Atom® Processors x7000RE Series and Isolated COM and CAN Bus Interfaces



FEATURES

- Robust Fanless System with Intel Atom® x7000RE Processor
- Dual 1KV isolation CANBUS and single 1KV isolation RS-485
- Dual 2.5GbE LAN ports, Dual display ports (HDMI® & USB Type C with DP ALT mode), Dual USB 3.2
- Onboard LPDDR5 4800MT/s up to 32GB, Onboard eMMC up to 256GB
- Wide DC Input 12V~30V and Operating Temperature from -40°C to 70°C

General

Processor	Intel® Atom® x7433RE, 4 cores, 9 W
Chipset	Intel® SoC
BIOS	AMI uEFI BIOS
Memory	2 x LPDDR5 4GB on board, support up to 32GB
Storage	1 x eMMC 128G on board, support up to 256GB
Watchdog Timer	Programmable, time out period from 1 s to 255 s

System I/O

Ethernet	2 x 2.5 GbE LAN w/ Intel® WGI226IT
USB	2 x USB 3.2 Gen2 x1 (10Gbps) Type A 1 x USB 3.2 Gen2 x1 (10Gbps) Type C with DP Alt mode
Display	1 x HDMI® 1.4a 1 x DP 1.4 colay with USB3.2 Gen2x1 Type-C
LED	Power, Storage
Antenna	6 x SMA Antenna holes for Wi-Fi / 5G

Expansion I/O

Serial Port	2 x Terminal Block support 1KV isolation CANbus FD 1 x Terminal Block support 1KV isolation RS-485
M.2	1 x M Key w/ 2242 for storage 1 x E Key w/ 2230 for WIFI/BT module 1 x B Key w/ 3042/3052 for 4G/5G/LAI
SIM Slots	2 x Micro-SIM
Security	TPM 2.0

Mechanical/Environment

Dimension(WxDxH)	120 x 120 x 76 mm (4.72" x 4.72" x 2.99")
Weight	1.5 kg
Power Supply	Terminal Block 12-30V
Mounting	DIN Rail, Wall Mount
Vibration	5G 10~500Hz with SSD (IEC/EN 60068-2-6)
Shock	50G 11m sec with SSD (IEC 60068-2-27)
IP Protection	IP40
Operating Temperature	-40 ~ 70 °C (-40.0 ~ 158.0 °F)
Storage Temperature	-40 ~ 85 °C (-40.0 ~ 185.0 °F)
Relative Humidity	5% to 95%, non-condensing
Certification	CE/FCC/UKCA Class A, LVD (EN 62368-1)
OS	Windows 10 IoT Enterprise, Windows 11 IoT Enterprise, Linux™
Portwell Special Feature	PET

Ordering Guide

LYNX-812D	Category	System
	Product	LYNX-812D
	Description	(R), LYNX-812D, SFF Embedded system with LSMC-M1013-X7433RE, 8G LPDDR5, 128G eMMC, TPM2.0 plus PA-P2S2C2U1D, 2 isolation CANBUS and 1 isolation RS-485
	P/N	AS5-3789
	Status	Available
LYNX-812D-ATO	Category	System
	Product	LYNX-812D-ATO
	Description	(R), ATO, LYNX-812D, SFF Embedded system with LSMC-M1013-X7433RE, 8G LPDDR5, 128G eMMC, TPM2.0 plus PA-P2S2C2U1D, 2 isolation CANBUS and 1 isolation RS-485
	P/N	AS5-3790
	Status	Available