RC700-ASL

Intel Atom® Processor Amston Lake Series
Compact Rugged Fanless Railway system



KEY FEATURES

Intel ATOM X7000RE Wide Temperature Series
Support WIN 11 and Linux

Rich I/O Connectivity
3x M12 GbE, 2 COM, 2 CAN Bus, 8bit DIO, 4 USB 3.2

Wide-Voltage
+24V, +110V DC vehicle power input with ACC/IGN function

Wide-Temperature
-40°C~70°C operation without active fan

EN50155

intel IoT Solutions Alliance

RoHS UK CA

SPECIFICATION

SYSTEM	**Processor**	Intel® Atom X7000RE processors (Code Name : Amston Lake) Intel® Atom Processor x7835RE, 8 Cores, 1.3~3.6GHz, 12W Intel® Atom Processor x7433RE, 4 Cores, 1.5~3.4GHz, 9W Intel® Atom Processor x7211RE, 2 Cores, 1.0~3.2GHz, 6W
	Memory	4GB/8GB LPDDR5 5200 Memory down
	BIOS	AMI SPI 64Mbit
GRAPHICS	**Controller**	Intel® HD Graphics
	Display	1 x HDMI 1.4b
STORAGE	**Internal**	eMMC 64GB or 128GB (Removeable)
	External	eMMC 128GB/256GB (default 128GB) 1 x M.2 2280 B+M key (PCIe/SATA) 1 x 2.5 inch SSD x1 (option)
LED	**Indicators**	1 x Power LED (Yellow) 1 x Storage LED (Red) 3 x Ethernet Link LED (Green)
EXPANSION	**Interface**	1 x M.2 2230 A+E key, USB 2.0/PCIe 1 x M.2 3042/3052 B key, USB 3.0/USB 2.0 1 x M.2 3042/3052 B key, USB 3.0/USB 2.0/PCIe, with Nano SIM 1 x M.2 2280 B+M key, PCIe/SATA
GNSS	**GNSS**	Via DFI M.2 E key module Support GPS, QZSS, Galileo, GLONASS, BeiDou by u-blox NEO-M9N Dead reckoning support upon request
FRONT I/O	**Display**	1 x HDMI 1.4
	Ethernet	3 x GbE, M12 X-code 1 share with OOB
	USB	2 x USB 3.2, type A 1 x USB 2.0, M12 A-code
	Serial	2 x RS-232/422/485, DB9-M
	CAN	2 x CAN bus, 2.0A, 2.0B, FD, DB9-M Support J1939, CANOpen
	DIO	8 x Isolated DIO with 2.5KV Isolation, Terminal block
	Button	1 x Reset button
REAR I/O	**Antenna**	7 x Antenna holes, SMA
WATCHDOG TIMER	**Output & Interval**	System reset, programmable via software from 1 to 255 seconds
POWER	**Type**	Wide range +24V, +110V DC with ignition control
	Connector	M12, A-code
SECURITY	**TPM**	TPM 2.0
OS SUPPORT	**Microsoft**	Windows 11 IoT Enterprise
	Linux	Linux Ubuntu 22.04
MECHANISM	**Construction**	Aluminum + SPGC Metal
	Color	Black
	Mounting	Wall mount
	Dimensions (W x H x D)	TBD
	Weight	TBD
ENVIRONMENT	**Temperature**	Operating: -40 to 70°C Storage: -40 to 85°C
STANDARDS AND CERTIFICATIONS	**Shock**	Operating/non-operating: IEC61373:2010, Category 1, Class B Body Mounted
	Vibration	Operating/non-operating: IEC61373:2010, Category 1, Class B Body Mounted
	Certifciation	CE, FCC, EN 50155(Class S2/Class C1), EN45545, RoHS, UKCA Compliant

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