

Edge AI Box 製品一覧

Models		Edge AI Box - EX7	Edge AI Box - EX5	Edge AI Box - EX3	Edge AI Box - Advance MK2	Edge AI Box - NX Outdoor	Edge AI Box - Light
Product code		ESC-AO601-L/W/5G	EHC-ONX402 -L/W	EHC-ON202-L/W	ESC-T4-712-5G	EHC-JNX-551-L/W	EHC-JN-101-L/W
Product status		On sale	On sale	On sale	Limited stock	Limited stock	*LTE Ver. Discontinued Wi-Fi Ver. On Sale
Appearance		屋内用	屋外用	屋外用	屋内用	屋外用	両用
							
Features		- Latest very high-performance embeded GPU module : AGX Orin - 32GB RAM and 64GB eMMC on board storage - 8 x PoE support for multi-camera processing - 2 x 2.5G ether - High speed large capacity storage (NVMe SSD : 512GB) - PoE support - 5G, LTE, WiFi support - Fanless - Latest Jetpack support	- Latest high-performance embeded GPU module : Jetson Orin NX - Compact indoor use and IP65 outdoor option cover - ARMM (Auto Recovery Monitoring Module) for 24 x 365 Operation - High speed large capacity storage (NVMe SSD : 256GB) - PoE support - 5G, LTE, WiFi support - Fanless - Latest Jetpack support	- Latest embeded GPU module : Jetson Orin nano - Compact indoor use and IP65 outdoor option cover - Cost effectiveness - ARMM (Auto Recovery Monitoring Module) for 24 x 365 Operation - High speed large capacity storage (NVMe SSD : 256GB) - PoE support - 5G, LTE, WiFi support - Fanless - Latest Jetpack support	- Industrial high performance edge computer - High-peformance GPU Tesla T4 - Intel Core i7 CPU - Large capacity HDD (2TB x2) - 5G support - LTE or WiFi support - Smart fan	- Heavy-duty outdoor model - High-performance embeded GPU module : Jetson Xavier NX - High waterproof and dustproof : IP67 - Lightning protection - PoE support - High speed storage (NVMe SSD : 128GB) - LTE or WiFi support - Fanless	- Low price - Compact, light weight - Low power consumption - PoE support - LTE or WiFi support - Fanless
Core module	Module	NVIDIA Jetson AGX Orin 32GB	NVIDIA Jetson Orin NX 16GB	NVIDIA Jetson Orin Nano 8GB	9th/8th gen Intel® Core™ i7 (Coffee Lake-S) + NVIDIA T4	NVIDIA Jetson Xavier NX	NVIDIA Jetson NANO
	AI Performance	200TOPS(INT8)	100TOPS(INT8)	40TOPS(INT8)	130TOPS(INT8)	21TOPS(INT8)	472GFLOPS(FP16)
	GPU	1792-core NVIDIA Ampere GPU with 56 Tensor Cores	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	NVIDIA Tesla T4, 320 Turing Tensor Cores, 2,560 CUDA cores	384-core NVIDIA Volta GPU with 48 Tensor Cores	128-core NVIDIA Maxwell GPU
	CPU	8-core Arm Cortex-A78AE v8. 2 64-bit CPU 3MB L2 + 6MB L3	8-core Arm Cortex A78AE v8. 2 64-bit CPU 2MB L2 + 4MB L3	6-core Arm Cortex-A78AE v8. 2 64-bit CPU 1.5MB L2 + 4MB L3	9th/8th gen Intel Core i7 (Coffee Lake-S)	6-core NVIDIA Carmel Arm v8.2 64-bit CPU	Quad-Core Arm Cortex-A57 MPCore processor
	DL Accelerator	2x NVDLA v2	2x NVDLA v2	N/A	N/A	2x NVDLA	N/A
	Vision Accelerator	1 x PVA v2	1 x PVA v2	N/A	N/A	2x PVA v1.0	N/A
	Memory	32 GB 256-bit LPDDR5 204.8 GB/s	16GB 128-bit LPDDR5 102.4 GB/s	8GB 128-bit LPDDR5 68 GB/s	2 x DDR4-2666/2400 un-buffered SO-DIMM, 32GB	8GB 128-bit LPDDR4x 59.7 GB/s	4GB 64-bit LPDDR4 25.6 GB/s
	On Board Storage	64GB eMMC 5.1	N/A (*supported by external NVMe)	N/A (*supported by external NVMe)	N/A	16GB eMMC 5.1	16GB eMMC 5.1
System I/O	Ethernet / POE	2 x 2.5 GbE 8 x 10/100 MbE PoE (60 Watts;non-isolated)	1 x GbE PoE & 1 x 2.5 GbE PoE (30 Watts; non-isolated) *Reserve GPIO on carrier for PoE Power Control	1 x GbE PoE & 1 x 2.5 GbE PoE (30 Watts; non-isolated) *Reserve GPIO on carrier for PoE Power Control	2 x 10/100/1000 Mbps Ethernet	1 x M12 X-Code RJ45 connector for 10/100/1000 w/ PoE (IEEE802.3at 30W w/ 10KV surge protection)	1 x GbE PoE (IEEE802.3af 15W) non-isolated
	USB	4 x USB 3.2 Gen 2 Type A 2 x USB 2.0 Gen 2 Type A	2 x USB 3.2 Gen 2 Type A	2 x USB 3.2 Gen 2 Type A	4 x USB 3.1 gen 2 type-A 2 x USB 2.0 type-A	1 x M20 USB 2.0 type-A	1 x USB 2.0 type-A 1 x USB 3.0 type-A
	DIO	1 x 8-CH DI/DO	4 in/4 out DIO (isolated; terminal block)	4 in/4 out DIO (isolated; terminal block)	N/A	N/A	N/A
	Display	1 x HDMI 2.0 (4K @ 60Hz) (Lockable)	1 x HDMI 2.0 (4K @ 60Hz) (Lockable)	1 x HDMI 2.0 (4K @ 60Hz) (Lockable)	1 x HDMI 1 x VGA	1 x M20 HDMI2.0 (4K 60Hz)	1 x HDMI2.0 w/ 4K2K supported
	LED Indicator	1 x Power Input LED 1 x M.2 SSD active LED 2 x LAN status LED 8 x PoE status LED	1 x Power Input LED 1 x M.2 SSD active LED	1 x Power Input LED 1 x M.2 SSD active LED	1 x Switch for power on/off w/LED 3 x SSD/HDD active LED	-	1 x Power Input LED
	Button	1 x Power button 1 x Reset button	1 x Power button 1 x Reset button	1 x Power button 1 x Reset button	1 x Power button	-	4 x Power button
	Switch	1 x Remote power switch 1 x AT / ATX switch 1 x Recovery switch for OS Flash	1 x Remote power switch 1 x AT / ATX switch 1 x Recovery switch for OS Flash	1 x Remote power switch 1 x AT / ATX switch 1 x Recovery switch for OS Flash	1 x Remote power switch 1 x AT / ATX switch	-	-
	Power Input	1 x 24 VDC power input (Phoenix type) 1 x Grounding screw	1 x 24 VDC power input (Phoenix type)	1 x 24 VDC power input (Phoenix type)	1 x 24 VDC power input (Phoenix type)	1 x M12 A-Code 3-pos AC in power input	1 x 12 VDC power input (plug jack)
Storage	System Storage	M.2 M-Key 2280 PCIe x4 slot for NVMe SSD 512GB	M.2 M-Key 2280 PCIe x4 slot for NVMe SSD 256GB	M.2 M-Key 2280 PCIe x4 slot for NVMe SSD 256GB	2 x 2.5" 7/24 2TB SATA3 HDD 1 x M.2 256GB NVMe SSD	128GB PCIe 2.0 x 2 NVMe SSD (M.2 2242)	1x 128GB NVMe SSD(M.2 2242)
Wireless connectivity	Wi-Fi / LTE / 5G	1 x M.2 E-Key 2230 slot for Wi-Fi 6(E) & BT5 1 x M.2 B-Key 3042/3050/3052 slot (USB only) for 5G/LTE 1 x Nano SIM slot	1 x M.2 E-Key 2230 slot for Wi-Fi 6(E) & BT5 or 1 x mini PCI-Express slot for Wi-Fi & LTE 1 x M.2 B-Key 3042/3050/3052 slot (USB only) for 5G/LTE 1 x Nano SIM slot	1 x M.2 E-Key 2230 slot for Wi-Fi 6(E) & BT5 or 1 x mini PCI-Express slot for Wi-Fi & LTE 1 x M.2 B-Key 3042/3050/3052 slot (USB only) for 5G/LTE 1 x Nano SIM slot	5G : Telit FN980 (5G model), Telit 910C4-AP(LTE model) 802.11 a/b/g/n/ac, Bt4.1 (Wi-Fi model)	Telit LE910C4-AP or SIMCOM SIM7100JC 802.11 a/b/g/n/ac, Bt4.1 (Wi-Fi model)	Telit LE910C4-AP or SIMCOM SIM7100JC 802.11 a/b/g/n/ac, Bt4.1 (Wi-Fi model)
Antena	Front Side Openings	3 x Antennas for 5G / LTE / Wi-Fi / Bluetooth / GPS	3 x Antennas for 5G / LTE / Wi-Fi / Bluetooth / GPS	3 x Antennas for 5G / LTE / Wi-Fi / Bluetooth / GPS	-	-	-
	Rear Side Openings	2 x Antennas for 5G / LTE / Wi-Fi / Bluetooth / GPS	2 x Antennas for 5G / LTE / Wi-Fi / Bluetooth / GPS	2 x Antennas for 5G / LTE / Wi-Fi / Bluetooth / GPS	4 x Antennas for 5G / LTE	2 x Antennas for LTE / Wi-Fi	2 x Antennas for LTE / Wi-Fi
System recovery	CPU/LTE/PoE WDT	N/A	CPU & LTE & Camera Watchdog Timer for cold reboot, LTE module reboot and PoE reboot	CPU & LTE & Camera Watchdog Timer for cold reboot, LTE module reboot and PoE reboot	N/A	N/A	N/A
General	IP rating	IP40	IP40 (IP65 by waterproof chassis)	IP40 (IP65 by waterproof chassis)	IP40	IP67	IP40
	Power Supply	24VDC (Phoenix Type)	24VDC (Phoenix Type)	24VDC (Phoenix Type)	24VDC (Phoenix Type)	12VDC	12VDC
	Power Consumption	TBC	38W (measured*1) *Does not include PoE power)	29W (measured*1) *Does not include PoE power)	230W (MAX*2)	56W (measured*1) 100W (MAX*2)	38W (measured*1) 60W (MAX*2)
	Operating Temperature *3	-25°C to +50°C	-25°C to +60°C	-25°C to +60°C	-10°C to +60°C	-30°C to + 50°C	-30°C to + 50°C
	Humidity	10% ~ 95%, non-condensing	10% ~ 95%, non-condensing	10% ~ 95%, non-condensing	10% ~ 95%, non-condensing	10% ~ 95%, non-condensing	10% ~ 95%, non-condensing
	Vibration	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)	-	3 Grms with M.2 (5 ~ 500Hz, X, Y, Z directions)	3 Grms with M.2 (5 ~ 500Hz, X, Y, Z directions)
	Shock	IEC 60068-2-27: w/ M.2:50G, 11ms (X, Y, Z) duration 3 times (Each axis)	IEC 60068-2-27: w/ M.2:50G, 11ms (X, Y, Z) duration 3 times (Each axis)	IEC 60068-2-27: w/ M.2:50G, 11ms (X, Y, Z) duration 3 times (Each axis)	-	IEC 60068-2-27: w/ M.2:50G, 11ms (X, Y, Z) duration 3 times (Each axis)	IEC 60068-2-27: w/ M.2:50G, 11ms (X, Y, Z) duration 3 times (Each axis)
	Dimension	239(W) x 185.3(D) x 79.4(H) mm	180(W) x 71.7(D) x 106(H) mm	180(W) x 71.7(D) x 106(H) mm	147.5 (W) x 230 (D) x 192 (H) mm	366.8(W) x 83(D) x 210(H) mm	140.7(W) x 35.0(D) x 130.0 (H) mm
Weight(Gross)		3.0 kg	1.5 kg	1.5 kg	5.5 kg	4.31 Kg	0.76 kg
Certification		CE, FCC Class A, UKCA (Pls contact to confirm)	CE, FCC Class A, UKCA, and E-Mark (Pls contact to confirm)	CE, FCC Class A, UKCA, and E-Mark (Pls contact to confirm)	CE & FCC Compliance (Pls contact to confirm)	CE & FCC Compliance (Pls contact to confirm)	CE & FCC Compliance (Pls contact to confirm)
Software	S/W Support	Jetpack 5.1.x (Ubuntu 20.04) or later	Jetpack 5.1.x (Ubuntu 20.04) or later	Jetpack 5.1.x (Ubuntu 20.04) or later	-	Jetpack 4.4 (Ubuntu 18.04) or later	Jetpack 4.3 (Ubuntu 18.04) or later

*1 Actual values measured by EDGEMATRIX: CPU, memory, eMMC, M.2 SSD, GPU, Wi-Fi and/or LTE module fully loaded
*2 Maximum values, given that power protection is secured with AC adapter and built-in power supply
*3 Tested with full loading of CPU, RAM, eMMC, M.2 SSD and GPU