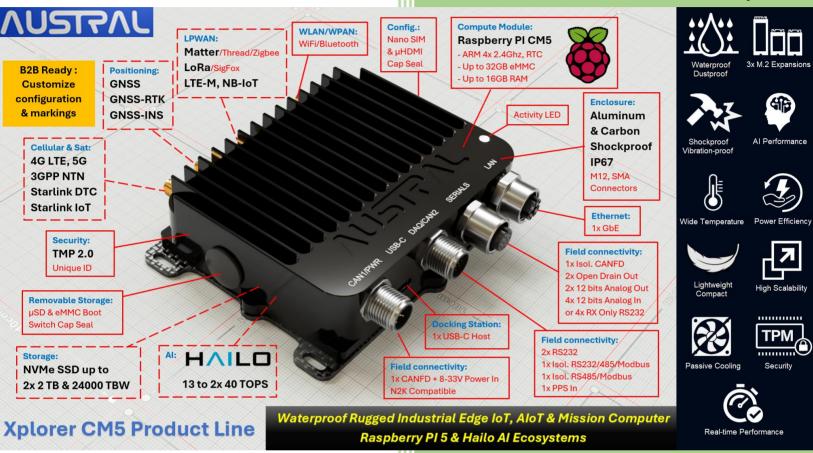


XPLORER CM5 OEM

2025 Novelty

Ready for AI and upcoming IoT & Satellite NTN connectivity



Unleash your creativity with the best-in-class SWAP-C platform for:

Sea, Air & Land Intelligent Mobility:

- Boat/RV Smart Automation Assistant
- Al Cameras Vehicle & Personal Security
- 4G/DTC Mobile Router-Gateway
- Docking System / Collision Avoidance
- Smart Autopilot / Wind Processor
- Foilers Flight Control System
- Unmanned Vehicle
- Marine Mission Computer
- Software-Defined Vehicle
- Tracking, Voyage/Flight Data Recorder

Smart, Connected Automation & Supervision:

- Industry 4.0, Energy, Mining, Oil & Gas: Machine Automation, PLC/Cloud Gateway, Overall Equipment Effectiveness, Predictive Maintenance, Smart Quality control...
- <u>Building, Home, Ship:</u> Automation, Voice Assistant, Energy, Safety, Security, Fire Control, Climate Control, HVAC, NAS...
- <u>Big Data Collection:</u> Site survey, AI training Recorder, Ocean Science...
- <u>Farming:</u> Al Supervision & Automation...

SPECIFICATIONS:

SPECIFICATIONS:	
CPU	Raspberry PI CM5 Industrial Module
	ARM Cortex A76 Quad-core, 64 bits, 2.4Ghz
GPU	VideoCore VII
eMMC	Up to 32 GB (may be read only)
RAM	Up to 16 GB
LAN	1x GbE
USB	1x USB-C Host (USB 2.0 & 3.0)
WLAN/WPAN	Dual-band 802.11ac Wi-Fi + Bluetooth 5.0
Removable	μSD Card (no boot, under a cap)
Storage	External USB-C 3.0 Key/Disk
CANbus	1x CANFD + 1x Isolated CANFD
RS232	2x RS232
RS485	1x Isolated RS232/RS485/Modbus
Modbus RTU	1x Isolated RS485/Modbus
	Up to 4x RS232 Rx only (share with A/D Input)
DAQ	2x Open Drain digital Output
	2x 12 bits Analog/Digital Output
	4x 12 bits A/D Input (share with RS232 Rx Only)
Cybersecurity	TMP 2.0 + Unique ID
Other	RTC, Watchdog, PPS Input
Development	1x μHDMI 4K (under a cap)
Debug	1x USB-C Host 3.0 Docking Station Ready
	1x EMMc USB-C Boot switch (under a cap)
Connectors	Circular M12 and SMA, IP67 USB-C
Power Supply	8-33V, 6-15 W (depending on options & loads)
Dimension	PCB: 93x67mm
Weight	Enclosure: 114x104x28 mm, 230-260 g
Assembly	Wall-mounted (DIN Rail on demand)
Enclosure	Anodized Aluminum & Carbon Fiber
Protection	IP67 (caps in place), Fanless
Op.Temp.	-20° to +60/65°C (depending on options & loads)
Certifications	CE, FCC, PSE, UKCA (more on demand)
Cables &	Available on distributor shelves at affordable price
Antennas	(1m, 2m, 3m, 5m). Can be supplied.

OPTIONS: (2x soldered + 3x M.2 modules)

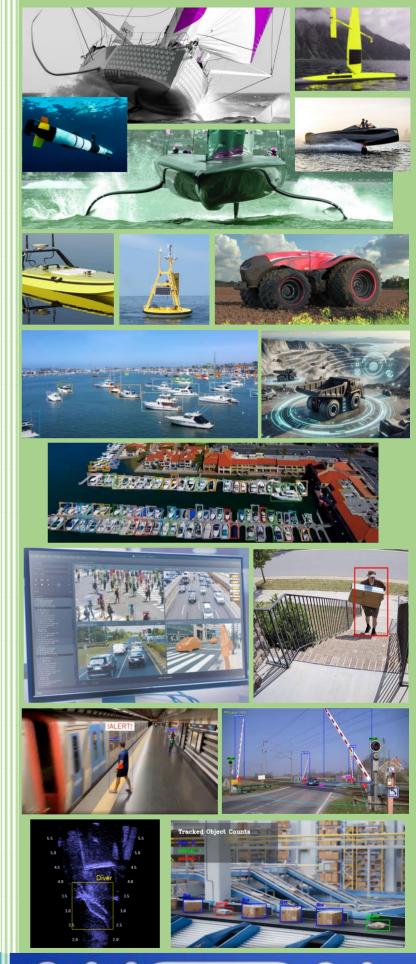
of Horto: (2x obtaorou - ex 1 i.2 modatoe)	
AI TPU	Up to 2x Hailo AI 8L, 8, 10H (13, 26, 40 TOPS each)
NVMe SSD	Up to 2x 2 TB (up to 24000 TBW each)
Cellular	4G, 5G
NTN &	Starlink Direct To Cell (2025)
Satellite	Starlink IoT (2025)
	Skylo (3GPP NTN)
	Upcoming: LoRa, NTN NB-IoT, eMTC, NTN 5G NR
	Matter + Thread + Zigbee + BLE Mesh
LPWAN	 LoRa + SigFox
	LTE-M + NB-IoT
	And more: Wi-Fi Halow, WiGig, UHF RF-ID
GNSS	GNSS, GNSS UDR, GNSS RTK
	Upcoming: GNSS/INS
Industrial	Ethercat, Profinet, FPGA

More wireless capability with IP or Serial external antenna: Starlink Broadband, OneWeb, Kuiper, Qiafan, Iridium, Inmarsat...

More:



AUSTRAL ELECTRONICS
Espace Teknica, 4 Rue Galilée
56270 PLŒMEUR – FRANCE
(+33) 604152880
contact@austral-eng.com
www.austral-eng.com



NUSTRAL

Intelligent Technologies for Marine, Industry, IoT & Drones