

ISSUE 50

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element14

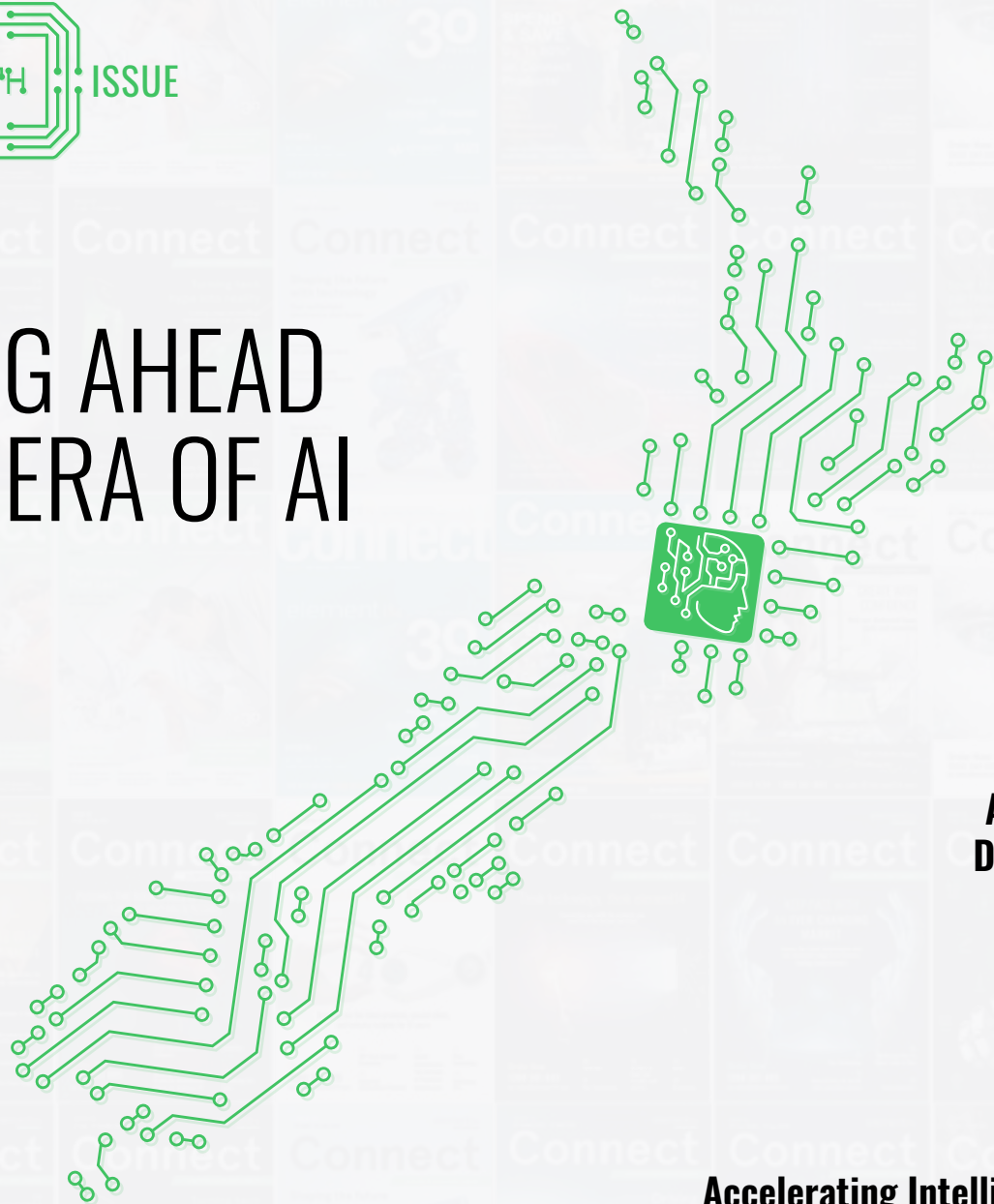
AN AVNET COMPANY

Connect

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50TH ISSUE

STAYING AHEAD IN THE ERA OF AI



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**Accelerating Intelligence
with Edge AI Solutions**

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Multicomp Pro

Order Now

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EDITOR'S NOTE

WELCOME TO THE 50TH EDITION OF CONNECT – ACCELERATE YOUR JOURNEY INTO INTELLIGENCE!

We're excited to celebrate a special milestone – the 50th edition of Connect! To mark this moment, we've packed this issue with fresh insights diving deep into how Artificial Intelligence is transforming the way we innovate and work.

This edition's theme, **Staying Ahead in the Era of AI**, is all about helping you accelerate your journey into intelligence with practical solutions and forward-thinking ideas. We hope it inspires you as much as it excites us.

A heartfelt thank you to all our readers and customers – your trust and support have brought us here. You're the reason we keep pushing to bring the latest innovations and valuable insights directly to you.

Don't forget to check out the special surprise we have for you and find out how you can get featured in Connect.

To stay in the loop with future editions and special offers, visit nz.element14.com/connect-magazine#register-with-us or sign up for our emails. And if you'd like to share your thoughts, we're always here to listen at nz-marketing@element14.com.

Here's to many more milestones – and to moving forward together into a future powered by intelligence and innovation!



Yeeun Kim | **Dawn Tan**
Marketing Team, element14



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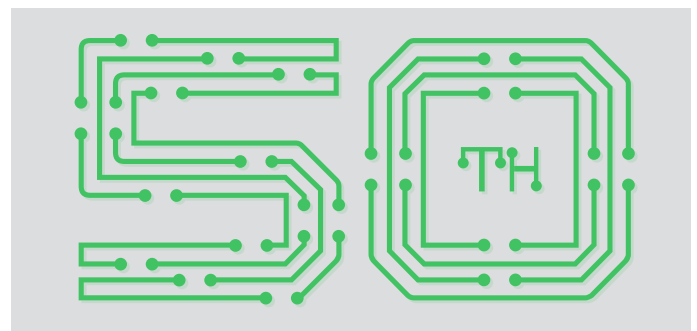
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WELCOME TO THE 50TH EDITION OF CONNECT MAGAZINE!

As we reach this significant milestone, it's the perfect time to reflect on how AI has reshaped our world—and how it continues to unlock opportunities for innovation and growth.

'Staying Ahead in the Era of AI' isn't just a theme; it's a mindset. It's about harnessing intelligence to address today's challenges while preparing for the needs of tomorrow. In this issue, we explore how edge AI and real-time decision-making can elevate industries and push boundaries.

At element14, our mission is to be more than just a distributor; we aim to be your trusted partner in innovation. Together, let's lead with vision, strategy, and purpose.



Navin Honnavar
Director
APAC Regional Marketing

ACCELERATE YOUR JOURNEY INTO INTELLIGENCE

AI isn't simply about technology; it's about empowering people to achieve the extraordinary. This 50th edition of Connect is dedicated to accelerating your path into intelligence with practical insights and tools that matter.


Our featured article, 'Accelerating Intelligence with Edge AI Solutions', delves into real-world applications of AI—showing how industries can unlock potential by bringing intelligence closer to where it's needed the most.

Every step forward is a step toward a smarter, more connected world. Thank you for allowing us to be part of your journey, and here's to building the future—together!



Kiran Kaur
Regional Sales Manager
Australia and New Zealand

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- Six pre-set blade pairs
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multicomp PRO



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- Easy to replace with pluggable heater

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- Supplied as 10ml syringe
- Excellent wettability
- Soldering flux paste for electronics

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- Can be used for Assorter 55, Boxxser 55, CarryLite 55, Compact, drawer 250-3 and tray in ToolCase
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- AT8 PVC floor marking tape with very aggressive, non-corrosive adhesive
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- Handy screw-mounting holes in each corner
- Grid co-ordinates marking on sides of the boards

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276827702**MC002551 - 3D PRINTER FILAMENT**

- Robust printing results with good glossiness
- No cracking or wiredrawing problems
- Print temperature: 205°C to 225°C

30% OFF**\$27.46**Order Code
284549802**262X 1 MIC - 8 1/2" X 11" - LAPPING FILM**

- Coated on high strength 3mm polyester backing to provide a uniform, consistent finish
- Aluminum oxide film for leveling and polishing steps
- Used to refine ferrule connectors

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168347402**D01768 - MAGNETS**

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- Compact size of these magnets allows work in tight spaces

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188809702**51608-00006-00 - SEALING TAPE**

- Noise-dampening, abrasion-resistant
- Flexible and smooth, tear resistant
- Stable unwind force, age-resistant

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430376302**1610-50PK - GENERAL PURPOSE CLEANER**

- 99.8% pure IPA
- Ideal for electronics cleaning
- Plastic-safe

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250133402**04957-00007-00 - FOAM TAPE**

- tesa® 4957 double-sided general purpose PE foam tape suitable for outdoor use
- Very conformable closed-cell PE foam backing and a shear-resistant, modified acrylic adhesive
- Tested and approved by IFT and TÜV

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177580502**TW-E40-1020 - BREADBOARD**

- Holes spaced 2.54mm x 2.54 mm
- Clearly labelled rows and columns
- Compatible with all Twin Industries machine pin jumper wires

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221334602**CF3050. - SWAB**


- Traps surface particles while cleaning
- High solvent capacity; holds solvent well
- Fiberless construction does not generate loose fibers or particles

30% OFF**\$32.14**Order Code
86078502**CR-X - 3D PRINTER**

- Two filaments, two extruders, one nozzle
- Printing technology: FDM (fused deposition moulding)
- Print area: 300x300x400mm (11.8x11.8x15.8"), dual-extruder: 270x270x400mm (10.6x10.6x15.8")


5% OFF**\$1,236.99**Order Code
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M3- HFST-Z100 - NUT



- M3 thread size
- Steel fastener material
- Fastener plating is bright zinc



20% OFF

\$1.14

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M26 PRA2MCS100- - MACHINE SCREW



- Durable steel construction: Provides strong, reliable fastening and long-lasting performance
- Multipurpose use: Ideal for use in electronics, mechanical assemblies, and other precision work
- Available in packs of 100



20% OFF

\$4.05

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ECWS61M-1 - ANTI STATIC WRIST STRAP



- Economy single-wire adjustable fabric wrist strap with 4mm snap and 6 feet cord
- Coil cord terminated with 4mm snap post and banana plug
- One-size-fits-all adjustable wrist band with 6 feet coil cord, alligator clip and 4mm snap



20% OFF

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WASH3 - WASHER



- M3 thread size
- Comes in pack of 100
- External diameter: 6.9mm




20% OFF


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Order Code **137749602**

005.12.123 - STANDOFF



- Hex size according to DIN 7168 medium (medium ± 0.15 mm)
- Length of half dog point ca. ± 0.25 mm
- Screw thread according to DIN 13 part 13, cut



30% OFF

\$0.45

Order Code **146684402**

R30-6200614 - SPACER



- R30 series M3 metric clearance circular spacer/pillar
- Aluminium spacer
- Supplied with a clear passivation finish to prevent oxidation



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- An alternative to nails, glue or screws
- Suitable for indoor use and certain outdoor projects
- Strong, water-resistant adhesive



30% OFF

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Order Code **240100202**

MP014334 - BOLT



- Excellent resistance to chemicals, acids, and solvents
- Hexagon head design
- Offers high mechanical strength while reducing overall assembly weight



40% OFF

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PPC222 - KAPTON TAPE



- Polyimide film antistatic protective film tape with polyimide substrate
- American dow corning silicone adhesive
- Pressure-sensitive adhesive



45% OFF

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Order Code **206130102**

MP-013-0008 - ANTISTATIC BAG



- Metal Faraday cage layer shields products from electric energy inside and prevents static build-up
- 10^8 to $10^{11}\Omega$ surface resistance
- Semi-transparent for easy content identification



30% OFF

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Order Code **168779102**

001-0076 - ANTISTATIC BAG



- Antistatic material shields sensitive components from electrostatic damage
- 508mm x 609.6mm accommodates larger electronic parts and assemblies
- Secure, tamper-proof seal for added safety during storage and transport



30% OFF

\$76.45

Order Code **150316102**

241100 - ANTISTATIC STORAGE BOX



- Rigid conductive box with foam in lid and base
- 6mm thick high density foam (HD) in base and 6mm thick low density (FX) foam in top
- Supplied with foam lining



20% OFF

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Tools Engineers Swear By – Shop the Essentials

UR5528RP250G – POLYURETHANE RESIN

ELECTROLUBE
THE SOLUTIONS PEOPLE



- Durable with a high degree of toughness
- Excellent adhesion to a wide variety of substrates
- Low viscosity allowing ease of application

20% OFF

\$60.84

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10878802

T3293 – DRILL BIT SET



- 135° forged HSS steel
- Precision-ground for accurate drilling
- Titanium nitride-coated for extra wear protection

20% OFF

\$24.56

Order Code
452860002

D00187 – BIT HOLDER



- 150mm magnetic bit holder
- Duratool products are rated 4.1 out of 5 stars
- For use with 1/4" hex bits

30% OFF

\$2.19

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144753602

CCJ-18-201-0100 – TAPE



- CHO-FOIL® EMI shielding foil tape with conductive adhesive
- Provides corrosion-resistant ground contact points
- Available in aluminium foil backed with chomerics highly conductive, pressure-sensitive adhesive

20% OFF

\$81.96

Order Code
121847402

522N – CUTTER



- Magic Spring™ design enables maximum durability with constant spring force movements
- Quality: Uncompromising Swiss quality created to be strong, durable and sharp
- Precise cuts from the high-precision screw joint that enables a smooth action with no jaw overlap

5% OFF

\$146.65

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05020235001 – COMBINATION WRENCH SET



- Strong magnet holds rail securely to metal surfaces
- Can be bolted to the wall
- Special open-end geometry expands the placement possibilities of the tool

\$298.04

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ARA400001 – EPOXY ADHESIVE



- Extra strong, long lasting bond
- Parts repositionable for 80 minutes
- Oil, chemical, and impact resistant

20% OFF

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MJ-330 – HEAT GUN



- Pocket-sized: Ideal for soldering and jewellery repairs
- Refill with any branded butane gas
- 1300°C windproof flame

20% OFF

\$21.50

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PEL00590 – OUTDOOR TIME DELAY SWITCH



- Connect two or more units in parallel
- Time delay switch with a multi-range accurate time settings and delay function from 2 seconds to 2 hours
- Dimensions (WxHxD): 80x110x70mm

20% OFF

\$31.76

Order Code
347204502

D00007 – TAPE MEASURE



- High visibility plastic housing
- Thumb-operated blade lock
- Belt clip and wrist strap

20% OFF

\$8.81

Order Code
136703502

TOP 10 R – TOOL AND LAPTOP BAG



- Back compartment with pouches and elastics for tool storage
- Multipurpose tool and laptop bag up to 13"
- Rubber grip ergonomic handle and adjustable shoulder strap

\$138.69

Order Code
421607302

42069 – TOOL SET



- Case: Robust, large, stable, and secure with lid brake
- Design and function of the tool trays guarantee quick and easy access to tools
- Gas-filled shock absorbers hold the lid in all positions

5% OFF

\$3,953.49

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SI4362-C2A-GMR - RF RECEIVER



- Frequency: 142MHz - 1050MHz
- Data rate: 100 bps to 1 Mbps
- Receive sensitivity: -129 dBm

30% OFF

\$8.89

Order Code
338705102

S32M276LHABMKHST - ARM MCU



- 1 x Arm Cortex-M7 core type, 120MHz operating frequency, 20 GPIO
- 1000KB flash, 128KB RAM
- 1 x I²C, 2 x SPI, 3 x UART serial communication, 3 x CAN FD, 3 x LIN

5% OFF

\$22.27

Order Code
458308102

PCF8574T/3,518 - I/O EXPANDER



- I²C-bus to parallel port expander
- 100KHz I²C-bus interface (standard-mode I²C-bus)
- Latched outputs directly drive LEDs

30% OFF

\$2.05

Order Code
169039302

HW-USB-II-G - PLATFORM CABLE



- Device programming and hardware debug, basic software debug
- USB host interface (USB 2.0), 0.4MB/s default bitstream programming speed
- 24MHz JTAG maximum clock speed

2% OFF

\$572.80

Order Code
282933802

SM-K26-XCL2GI - PLUG-IN MODULE

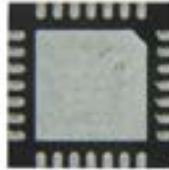


- Enabled encryption, 4GB 64bit wide DDR4 memory
- 512Mb QSPI, 16GB eMMC, 64Kb EEPROM
- TPM2.0 security module

\$952.06

Order Code
377759102

SX1278IMLTRT - RF TRANSCEIVER



- 168dB maximum link budget
- +20dBm - 100mW constant RF output vs. V supply
- Programmable bit rate up to 300kbps

20% OFF

\$10.61

Order Code
425976002

NRF54L15-DK - DEVELOPMENT BOARD



- nRF54L15 wireless SoC and SWF RF connector
- 2.4GHz and NFC antennas
- SEGGER J-Link OB programmer/debugger

\$68.66

Order Code
456841702

EK-U1-ZCU102-G - EVALUATION KIT



- Optimised for quick application prototyping with Zynq UltraScale+ MPSoC
- DDR4 SODIMM - 4GB 64-bit w/ ECC attached to processing system (PS)
- DDR4 component - 512MB 16-bit attached to programmable logic (PL)

\$6,298.70

Order Code
280274802

MIMXRT1043DFP6B - MICROPROCESSOR



- 600 MHz, commercial grade for general purpose, with MPU/FPU
- Arm Cortex-M7 Core Platform
- 169 pins

30% OFF

\$11.82

Order Code
468063102

HMC444LP4E - RF MIXER IC



- Output power: +6 dBm
- Sub-harmonic suppression: >25 dBc
- 24 Lead 4x4 mm SMT package: 16 mm²

\$171.53

Order Code
456853602

STGSH50M120D - IGBT MODULE



- Operating temperature maximum: 175°C
- Surface mount transistor mounting
- Power dissipation: 536W

10% OFF

\$25.46

Order Code
463255902

BAS21E6327HTSA1 - SMALL SIGNAL DIODE



- Total power dissipation: 350mW
- Breakdown voltage: 250V
- Capacitance: 5pF

50% OFF

\$0.30

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105649802

Shop the latest in Semiconductors

EV-CBM-VOYAGER4-1Z - WIRELESS VIBRATION EVAL KIT



- Ultra-low power microcontroller and robust low power BLE technology
- Decision making at the edge reduces network overhead and improves battery life
- Mechanical mounting and measurement capability up to 8kHz bandwidth

\$678.82

Order Code
467460402

S32G-VNP-RDB2 - REFERENCE DESIGN BOARD



- Supports service-oriented gateway and domain controller applications
- Multiple network interfaces, featuring 18 CAN/CAN FD and 12 Ethernet ports
- Supports low-power mode and multiple wake-up sources

\$4,868.31

Order Code
469124902

LBEE5PK2AE-564 - WIFI & BLUETOOTH MODULE



- 2.4GHz & 5GHz Wi-Fi® + Bluetooth® module
- Dimension is 8.0 x 7.8 x 1.15mm
- 3.13V to 3.5V supply voltage

10% OFF

\$23.64

Order Code
464578002

ACPL-217-50CE - OPTOCOUPLER



- DC-input single channel half-pitch phototransistor optocoupler
- No. of pins: 4
- Average forward current: 50mA

40% OFF

\$0.67

Order Code
465505702

MIKROE-4067 - CLICK BOARD



- Flash 6 click board
- On-board W25Q128JV (128M-bit) flash memory from Winbond
- QSPI, SPI interface

\$13.75

Order Code
352855002

MCIMX8ULP-EVK - EVALUATION KIT



- i.MX 8ULP applications processor, dual Cortex-A35 at 800MHz, Cortex-M33 at 216MHz
- Cadence® Tensilica® HiFi 4 DSP, Cadence® Tensilica® Fusion DSP 200MHz, EdgeLock® secure enclave
- Memory: 2 GB LPDDR4

\$1,072.08

Order Code
469124702

EVLSTGAP3S6S - EVALUATION BOARD



- Half-bridge configuration
- High-voltage rail up to 520V (limited by the MOSFET's and capacitor's rating)
- SCSH60N120G2-7 SiC MOSFETs: 1200V, 52mohm, 60A

\$99.98

Order Code
464585302

EV1603-5000-A - EVALUATION BOARD



- 1.4MHz switching frequency
- 2x22µF (MLCC) input capacitance, 2x22µF (MLCC) output capacitance
- Dimension (width x length x thickness): 63 x 84 x 1.5mm

\$180.87

Order Code
469000502

FRDM-IMX91 - FRDM DEVELOPMENT BOARD



- Processor: i.MX 91 applications processor, Cortex-A55 at 1.4G, EdgeLock® secure enclave
- Memory: 1GB LPDDR4, 8GB eMMC5.1, microSD slot, EEPROM
- 802.15.4 radio supporting Thread and Zigbee

\$130.85

Order Code
468063402

IGC033S101XTMA1 - GALLIUM NITRIDE (GAN) TRANSISTOR



- High switching frequency
- No reverse recovery charge
- Reverse conduction capability

30% OFF

\$3.96

Order Code
464039002

FDMM256GBC-5700 - FLASH MEMORY CARD



- CPRM (content protection for recordable media) of SD card supported
- 256GB capacity, 3,000,000hrs MTBF
- Write protect feature using mechanical switch

3% OFF

\$337.68

Order Code
465503102

AG086FGD3HRBTL - POWER MOSFET



- Maximum operating temperature: 175°C
- Power dissipation: 76W
- Qualification: AEC-Q101

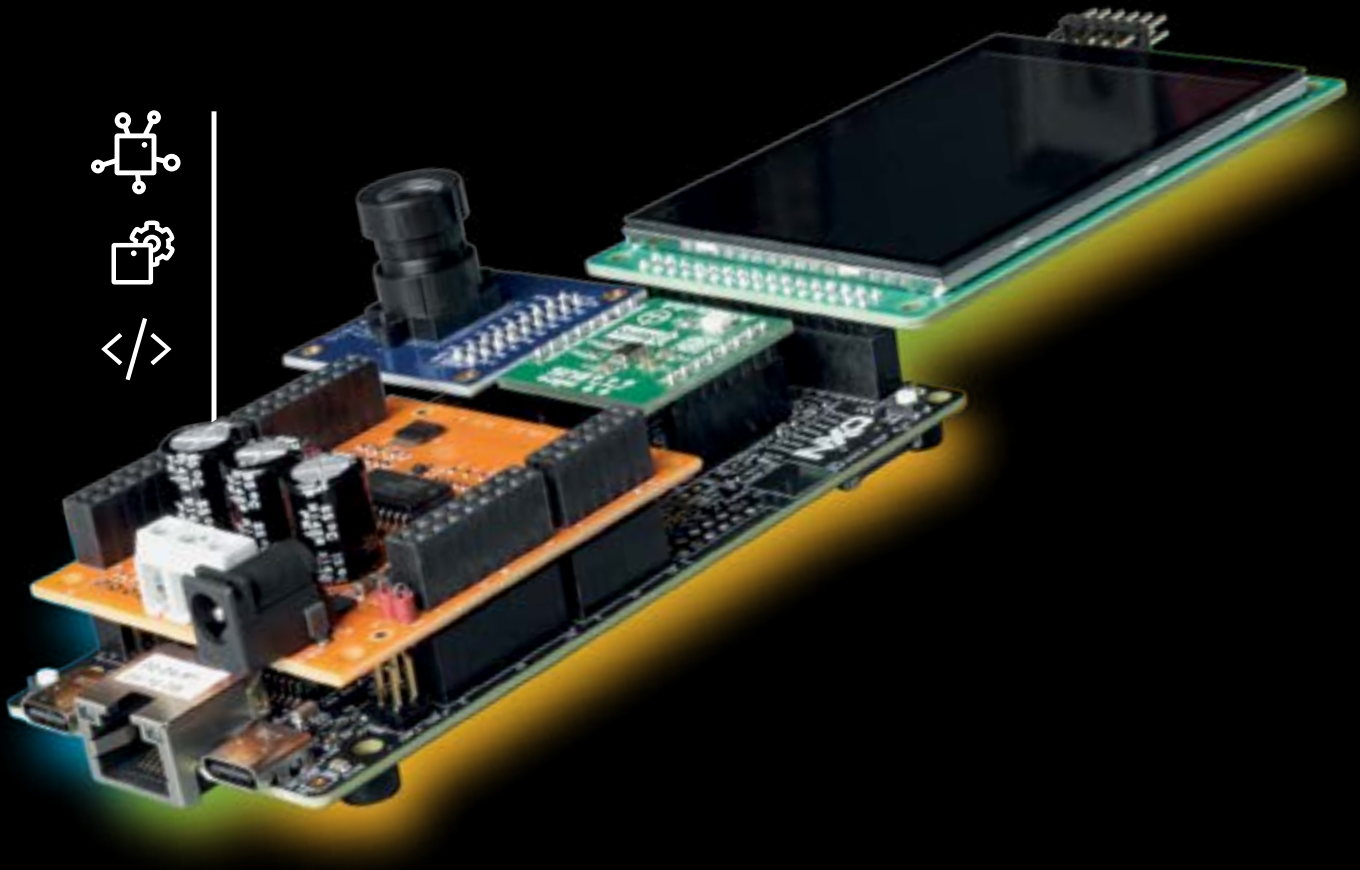
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\$1.76

Order Code
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MDP2HDM3MB - LEAD

StarTech.com



- Passive DisplayPort conversion; supports resolutions up to Ultra HD (4K @ 30Hz)
- 7.1 Channel surround audio support
- Fully compliant with DisplayPort version 1.2

10% OFF

\$49.70

Order Code
466613902

X-428796A - MAINS POWER CORD



- Cable length: 2.5m
- Black PVC jacket
- 250VAC, 10A rated

20% OFF

\$9.48

Order Code
112439402

102001 WDU2.5 BLACK - DIN RAIL MOUNT TERMINAL BLOCK

Weidmüller



- Can be clipped to or removed from the terminal rail in either direction
- Thermally stable up to 120°C
- Phosphorous- or halogen-free

30% OFF

\$2.51

Order Code
113177802

MP015237 - CABLE

multicompro



- Connector FTDI-FT232R-PCB(5V) USB A/M
- Conductor resistance: 2Ω
- Insulator resistance: 10MΩ

40% OFF

\$19.54

Order Code
457237602

1873210 - PLUGGABLE TERMINAL BLOCK

PHOENIX CONTACT



- Time-saving, push-in connection, tools not required
- Intuitive use through colour-coded actuation lever
- Quick and convenient testing using integrated test option

30% OFF

\$4.38

Order Code
179285602

TM2S8-C0 - CABLE TIE MOUNT

PANDUIT



- Screw-applied cable tie mount
- Offers a through-hole in the mount in which a screw can be secured
- Offers maximum stability for cable bundles

40% OFF


\$61.27

Order Code
101570302

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FEATURED CATEGORIES



Circular Connectors

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D-Sub Connectors & Components

UP TO 40% OFF

Scan for the full list



PX0921/04/S - CIRCULAR CONNECTOR



- 32A, 600V ac/dc rating
- Trailing neutral on 5 pole
- Water and dustproof to IP68 when mated

30% OFF**\$55.51**Order Code
313593702

206705-2 - CIRCULAR CONNECTOR



- Receptacles are available with square flange and free-hanging mounting
- Standard and reverse connections
- UL 94-V0 rated black thermoplastic housing

20% OFF**\$7.98**Order Code
58964002

DG9015MF3 - D SUB CONNECTOR ADAPTER



- Standard D Sub
- Convert from plug to receptacle
- Gold-plated contacts

10% OFF**\$63.76**Order Code
405840602

53047-0510 - PIN HEADER



- Friction lock
- Reliable terminal
- Polarised mating geometry

20% OFF**\$0.41**Order Code
973286102

CA3LD - CIRCULAR CONNECTOR



- IP67 degree of protection
- Maximum conductor cross section of 1.5mm²
- Operating voltage: 250VDC/400VAC

30% OFF**\$17.74**Order Code
361186302

8325-6000 - D SUB CONNECTOR



- Grey colour
- UL94V-0 flammability rating
- Current rating: 1A

10% OFF**\$13.74**Order Code
239616002

MHDM-9-K - D SUB BACKSHELL



- Nickel-plated zinc backshell material
- Operating temperature range: -40°C to 120°C
- 360° EMI shielding

30% OFF**\$4.35**Order Code
430343002

PP-15-0 - SLEEVING



- Bore diameter: 10-20mm
- Material: Polyester
- Operating temperature: -50°C- 150°C

30% OFF**\$87.67**Order Code
891805802

206070-8 - CIRCULAR CONNECTOR CLAMP



- 15/16-20 UNEF-2B thread size
- Straight body
- UL 94V-0 Flammability rating

10% OFF**\$12.98**Order Code
165477602

10136-3000PE - D SUB CONNECTOR



- Solder cup termination requires no special tooling
- UL94V-0 flammability rating
- Current rating: 1A

30% OFF**\$14.73**Order Code
929265902

8101 - D SUB CONNECTOR ADAPTER



- 9-way low profile DB9F to DB9F gender changer
- Compact space-saving design
- Competitive price without compromise in quality

20% OFF**\$3.90**Order Code
152573902

7-1452668-1 - AUTOMOTIVE CONNECTOR CONTACT



- 16A current rating
- Suitable for 20 to 18AWG wire size
- 0.6mm tab thickness, 1.2mm mating tab width

40% OFF**\$0.22**Order Code
322660602

Explore our most reliable Interconnect picks

71430-250/0802 - DIN AUDIO/VIDEO CONNECTOR

PrehKeyTec



- Zinc base, alloy metal body
- DIN-IEC 68 part 1 climatic class
- Plug pin and contact spring made of brass

20% OFF

\$6.37

Order Code
119315502

HS402 - ADHESIVE LINED HEAT SHRINK TUBING

multicomp PRO



- Minimum shrink temperature: 70°C
- Operating temperature range: -55°C to 125°C
- Shrink ratio: 3:1 and 4:1

45% OFF

\$7.10

Order Code
125684602

2439034-3 - USB CONNECTOR

TE



- USB type A
- 9 ways
- Through-hole mount

3% OFF

\$3.13

Order Code
426673702

2213800-4 - WIRE SPLICE

TE



- Simple push button termination
- Reliable and proven insulation displacement technology
- CoolSplice operating temperature between -40°C and 105°C

30% OFF

\$2.54

Order Code
267864702

M12A-02BFFM-SL8C10 - SENSOR CABLE

Amphenol LTW
Innovation in Waterproof Solution



- Cable length: 32.8ft
- 2 positions
- Connector type B: Free end

3% OFF

\$99.60

Order Code
386140102

02-06-1103 - CONTACT

molex



- 18, 20, 22, 24AWG wire size
- Round terminals may be oriented in any direction
- 1 to 36 circuit housings

30% OFF

\$0.15

Order Code
107988902

09 15 000 6102 - HEAVY DUTY CONNECTOR CONTACT

HARTING
Partner Performance Since 1945



- Rated current: 10A
- Contact resistance of less than or equal to 3mohm
- Wire cross section of 1mm² (18AWG)

30% OFF

\$13.39

Order Code
15185302

CLP-110-02-L-D - PCB RECEPTACLE

samtec



- Pitch spacing is 1.27mm (2 to 50 contacts per row) with double row (-D)
- High operating temperature range: -55°C to 125°C
- Contact material: Phosphor bronze

20% OFF

\$4.46

Order Code
166756002

3044092 - DIN RAIL MOUNT TERMINAL BLOCK

PHOENIX CONTACT



- Half-sine shock form
- Stripping length: 9mm
- UL94V-0 flammability rating

20% OFF

\$6.42

Order Code
833303302

B1121A1-ND3G-1-50 - RF / COAXIAL CONNECTOR

Amphenol® RF



- Nickel-plated annealed copper crimp ferrule
- RMS working voltage: 500V
- RMS Dielectric withstanding voltage: 1500V

10% OFF

\$4.23

Order Code
111126002

BEH-001T-P0.6 - CONTACT

JST
The Quality Connection



- High reliability
- Insulation outer diameter: 1.0 to 1.9mm
- Voltage rating: 250V AC, DC

40% OFF

\$0.04

Order Code
239917202

E0508-WHITE - WIRE FERRULE

multicomp PRO



- Maximum electric current: 9A
- Maximum electrical rating: 105°C 600V
- Insulation material: Nylon

45% OFF

\$4.56

Order Code
997221802

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800560-SF - POWER LINE FILTER



- Operating frequency: DC to 400Hz
- UL94V-2 Flammability rating
- Operating temperature range: -25°C to 100°C

10% OFF

\$69.39

Order Code
119138102

ACM1211-102-2PL-TL01 - FILTER



- Rated voltage: 80VDC
- Minimum insulation resistance: 10MΩ
- Operating temperature range: -40°C to 85°C

30% OFF

\$2.43

Order Code
211277902

MINISMD050F-2 - RESETTABLE FUSE



- Small 1812 footprint
- Conforms to IEC 60730-1, clauses 12, 15, 16, 17, J15 and J17
- Fast time-to-trip

30% OFF

\$0.45

Order Code
117583902

74270037 - FERRITE CORE



- Filter for common mode interferences
- Operating temperature: -25 °C to +125 °C
- NiZn Core material

20% OFF

\$1.43

Order Code
163565002

50YXJ3R3M5X11 - ELECTROLYTIC CAPACITOR



- Category temperature range: -40 to 105°C
- Capacitance tolerance: ±20% (20°C, 120Hz)
- Rated voltage range: 6.3 to 100Vdc

45% OFF

\$0.23

Order Code
234626702

93R1A-R22-A18L - ROTARY POTENTIOMETER



- Essentially infinite theoretical resolution
- IP40 protection rating
- Operating temperature range: -40°C to 125°C

30% OFF

\$11.08

Order Code
232180702

NTCLG100E2104JB - THERMISTOR



- Operating temperature: -40°C to 200°C
- Resistant to corrosive atmospheres and harsh environments
- Quick response time down to 0.9 s

30% OFF

\$0.73

Order Code
116482302

ABI-006-RC - TRANSDUCER



- Operating temperature range: -20°C to 60°C
- 8mA/16VDC Piezo Buzzer with ABS housing
- Features a self contained solid state device

30% OFF

\$4.07

Order Code
102239402

MCASH168SC7224KTCA01 - SMD MULTILAYER CERAMIC CAPACITOR



- 0.22 µF, 100 V
- 1.6mm (L) × 0.8mm (W)
- RoHS compliant

40% OFF

\$0.11

Order Code
466662202

CSTLS4M00G53-B0 - RESONATOR



- REACH compliant
- Maximum resonant impedance: 30Ω
- Built-in load capacitance: 15pF

40% OFF

\$0.21

Order Code
244327202

TAP334K035SCS - TANTALUM CAPACITOR



- Temperature range: -55°C to +125°C
- CECC 30201 - 032 qualification
- Radial-leaded

30% OFF

\$0.70

Order Code
285276202

7Z87 - ZENER BARRIER



- Working voltage: 26.5 V at 10 µA
- Fuse rating: 50 mA
- DIN rail mounting

5% OFF

\$401.27

Order Code
160408602

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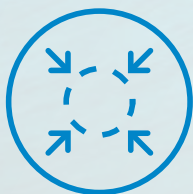
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SD38/0-20MA - ANALOGUE PANEL METER

multicomp PRO



- Over current - within 5 items of rate current
- 1500Ω ±10% coil resistance
- 100μADC ±2.5% current sensitivity

40% OFF

\$42.40

Order Code
443374902

WLCA2G - LIMIT SWITCH

OMRON



- Current rating: 10A
- Dual circuit snap-action limit switch
- Actuator heads are adjustable in 90° increments through 360°

10% OFF

\$132.00

Order Code
10346902

AP/W/SWITCHED/VC - SOUNDER

Fuller



- 32 tones
- Second tone for two stage alarm
- Automatic synchronisation

30% OFF

\$46.73

Order Code
146651602

750104 - SAFETY RELAY

PILZ
THE SPIRIT OF SAFETY



- Positive-guided relay outputs of 3 safety contacts (N/O), 1 auxiliary contact (N/C) instantaneous
- 1 semiconductor output
- Connector can be used to connect 1 PNOZsigma contact expander module

5% OFF

\$521.28

Order Code
170448602

LC1D25BL - CONTACTOR

Life Is On | **Schneider Electric**



- AC-1 and AC-3 utilisation category
- Rated operational voltage of 690VAC at 25Hz to 400Hz and 300VDC for power circuit
- Rated operational current of 40A at ≤ 440 VAC AC-1 and 25A at ≤ 440 VAC AC-3 for power circuit

40% OFF

\$335.73

Order Code
362256302

19051357 - LED PANEL MOUNT INDICATOR

CML
HIGH END LIGHTING



- Shockproof and vibration-proof
- Extremely long lifetime
- Easy to install

30% OFF

\$8.88

Order Code
110530602

A104800AAB - LED HOLDER

arcoelectric



- Brass holder material
- External diameter: 9.5mm
- External length: 14.5mm

30% OFF

\$4.81

Order Code
14547002

1240900000 - ETHERNET SWITCH

Weidmüller



- Redundant dual 24V
- IP30 aluminium housing
- Rugged hardware design, well-suited for hazardous locations and maritime environments

10% OFF

\$318.65

Order Code
186669802

D72V300 - ANALOGUE PANEL METER

DELTA



- Class 1.5 accuracy
- 90° sweep of movement
- Thermoplastic case conforming to DIN43700 and sealed IP54

10% OFF

\$44.47

Order Code
101588102

DMS-20LCD-0-DCM-C - VOLTMETER

maData P.A.
Measuring Power Solutions



- Self-powered, only two connections required
- +6.50-18.00Vdc (0.01V resolution)
- Ideal for battery-powered systems

5% OFF

\$56.88

Order Code
121541102

AT8N-24-240. - MULTI FUNCTION TIMER

Autonics
Sensors & Controllers



- Power on start timing operation
- Control time selectable setting range: 0.05 seconds to 100 hours
- Time limit or instantaneous double pole, double throw, 250 volt AC/5 amp contacts available

5% OFF

\$67.01

Order Code
173681502

AZ17-11ZRK - LIMIT SWITCH

SCHMERSAL



- Small body
- 8 actuating planes
- Multiple coding

30% OFF

\$101.40

Order Code
189035502

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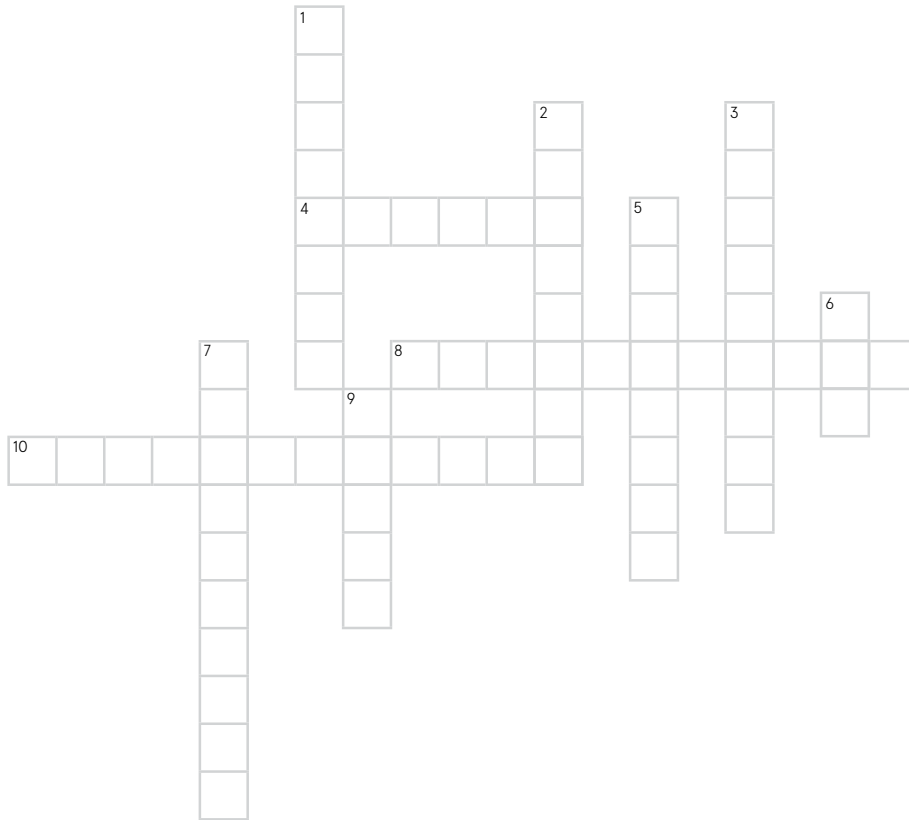
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CELEBRATE 50 WITH US!

Crack the code: Crossword Challenge

Solve the crossword puzzle with the clues provided. Submit your completed puzzle.

5 lucky winners will be raffled to win a prize.



Down:

1. It pulls heat away from critical components
2. Software embedded in hardware
3. Opposition to AC, combining resistance and reactance
5. Limits current in an electrical circuit
6. Abbreviation for the board that connects all components
7. Multi-purpose tool for electrical measurements
9. Connect has reached 50 of these!

Across:

4. Metal used to join electronic components
8. Ability to store an electrical charge
10. Tool to visualise waveforms in real-time

Winners will be contacted by email.

Submissions close on **15th September 25.**

Limited to 1 submission per account.

Answers will be posted on:

nz.element14.com/connect-magazine on 16th September 25.



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How long have you been reading Connect?

What is your favourite product from element14?

What's your favourite section in the magazine?

What topics or projects would you like to see more of in future issues?

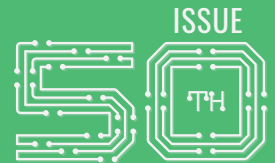
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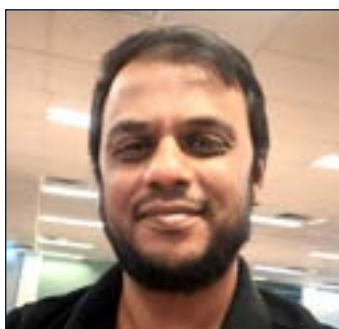
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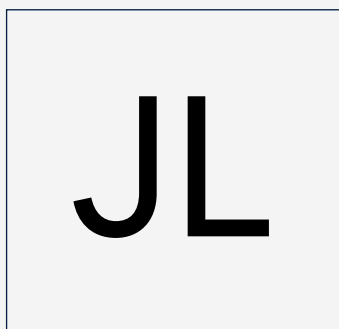
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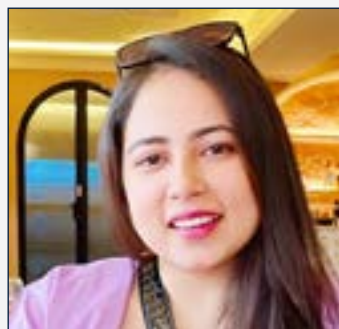
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Bench Power Supplies

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72-2540 - BENCH POWER SUPPLY

multicomp^{PRO}

- Complete digital control/programmable 10mV/1mA resolution
- Low noise and ripple
- CV/CC constant voltage and constant current modes

30% OFF

\$193.86

Order Code **244541202**

72-2715 - BENCH POWER SUPPLY

TENMA

- Input voltage of 230V
- Encoder-controlled fine and coarse adjustment
- Constant current (CC) and constant voltage (CV) modes of operation

20% OFF

\$198.33

Order Code **256398802**

5907A - TEST LEAD SET

Pomona^{ELECTRONICS}

- Black and red insulator
- 1000Vrms/DC maximum operating voltage
- 20 to 55°C operating temperature range

10% OFF

\$39.85

Order Code **240602302**

QL564TP - BENCH POWER SUPPLY

AIM TTI

- 0 - 56V/0 - 2A or 0 - 25V/0 - 4A main output, 1 x 1 - 6V/3A auxiliary output
- 242W maximum power, 500V/A maximum input
- RS232/USB/LAN interface

3% OFF

\$2,677.74

Order Code **464585502**

2231A-30-3-AU - BENCH POWER SUPPLY

KEITHLEY
A Tektronix Company

- 3 outputs
- Supply voltage: Max 230V
- 3 year warranty

2% OFF

\$1,938.76

Order Code **440895202**

972354102 - BANANA TEST CONNECTOR

HERSCHMANN

- 4mm safety system
- CAT III measurement cat. acc. to IEC 61010
- AC/DC 1000 V rated voltage (1)

40% OFF

\$7.27

Order Code **101140302**

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Oscilloscopes

UP TO 20% OFF

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Handheld

UP TO 30% OFF

Scan for the full list



TBS1102C-AU - DIGITAL OSCILLOSCOPE

Tektronix

MP721075 - DIGITAL OSCILLOSCOPE

multicomp PRO

PICOSCOPE 2204A - PC USB OSCILLOSCOPE

pico Technology

- 32 automated measurements, small footprint and lightweight
- Dual window FFT with simultaneous time and frequency domain views
- Trigger frequency counter, pan and zoom capability



- Vertical resolution (A/D): Max 8bits
- Bandwidth: 100MHz
- Sample rate: 1GS/s



- 8KS capture memory, 100KHz AWG bandwidth, 35ns rise time
- 8-bit resolution
- Built-in arbitrary waveform generator

\$1,826.95Order Code
440876002**\$2,070.40**Order Code
435102402**\$268.89**Order Code
236542502

MP730026 EU-UK - HAND HELD DIGITAL MULTIMETER

multicomp PRO

U1272A-AU - DMM

KEYSIGHT

382252 - EARTH GROUND TESTER

EXTECH INSTRUMENTS

- True RMS
- 1,000V DC/750V AC, 20A AC/DC current, resistance, capacitance, frequency, and duty cycle measurement ranges
- -50°C to 400°C temperature measurements



- OLED display with 2000:1 contrast ratio and 160 degrees viewing angle
- 30,000-count resolution
- Low impedance mode and low pass filter, smart ohm removes residual voltage of up to 1000mV



- Large dual display with backlight, test hold function for easy operation
- Automatic zero adjustment, auto power off, over-range and low battery indication

20% OFF**\$62.75**Order Code
310758402**\$1,274.29**Order Code
438345502**3% OFF****\$474.35**Order Code
268863402

410-417 - MSO / MDO OSCILLOSCOPE

DIGILENT
Digilent is now part of Emerson.

TEN01061 - DIGITAL MULTIMETER

TENNA

FLUKE-175 ESFP - AU - DIGITAL MULTIMETER

FLUKE

- USB MSO with deep memory buffers for long acquisitions
- BNC connectors and an aluminium case
- Two analogue inputs - 50MHz bandwidth



- Large 3 1/2 digit, 2000 count LCD display with backlight
- AC/DC voltage, DC current and resistance measurements
- Continuity and diode test



- Safety rated CAT III 1000V, CAT IV 600V
- Comes with a lifetime warranty
- Allows closed-case calibration through front panel

3% OFF**\$1,549.67**Order Code
435359502**20% OFF****\$28.12**Order Code
349834102**3% OFF****\$632.88**Order Code
441039202

RTH-BNDL - OSCILLOSCOPE

ROHDE & SCHWARTZ
MSO-SD-100

M210 - OHMMETER

RHOPPOINT COMPONENTS

EL-USB-2+ - DATA LOGGER

LASCAR electronics

- 500MHz bandwidth
- 4 analogue scope channels
- 500 kpts display memory depth



- Auto switch-off after three minutes
- 20 hours continuous operation (from standard PP3 battery)
- Auto-ranging



- Measures and stores up to 16,382 relative humidity and 16,382 temperature readings
- 0 to 100%RH measurement range
- -35 to +80°C (-31 to +176°F) measurement range

\$15,240.93Order Code
465959202**\$1,347.58**Order Code
10927902**\$139.03**Order Code
169277702

Bestselling Test & Measure Products

72-13210 - DC ELECTRONIC LOAD

multicomp PRO


- Battery test, automatic test, OPP test, OCP test functions
- Dynamic mode up to 10kHz
- Resolution of voltage and current: 0.1mV/0.1mA

30% OFF
\$439.35

 Order Code
284840702

ESR70 - ESR METER

PEAK


- Measures capacitance and ESR
- Automatically starts analysis when the ESR70 is connected
- Audible alerts with different tones for various ESR levels

\$172.03

 Order Code
291787802

72-2700 - BENCH POWER SUPPLY

TENNA


- Maximum supply voltage of 230V and power rating of 180W
- Maximum output voltage of 60V and maximum output current of 3A
- Ambient temperature ranges from 0°C to 40°C

30% OFF
\$174.54

 Order Code
256398402

44/830/7 - THERMOMETER

Breiten


- Glass tube with blue kerosene filling
- Non-roll end cap with ring to allow suspension
- Total immersion

20% OFF
\$4.72

 Order Code
340390202

72-10495 - BENCH TOP LINEAR POWER SUPPLY

multicomp PRO


- Linear power supply
- Output terminals designed for banana plugs
- Digital control panel with 4-digit display

30% OFF
\$261.34

 Order Code
225194702

BK880 - LCR METER

BK PRECISION


- 40,000 counts resolution on primary, 10,000 counts resolution on secondary display
- L, C, R, and Z (BK879B & BK880 only) primary measurements
- Automatic calculation of secondary parameters D, Q, Theta, ESR (Theta/ESR for 879B & 880 only), and DCR (BK880 only)

3% OFF
\$933.75

 Order Code
277032202

DCA75 - COMPONENT ANALYSER

PEAK


- Can connect DCA Pro to PC for curve tracing functions
- Ultra-slim and compact design
- Single AAA battery included (not required when USB connected)

10% OFF
\$298.49

 Order Code
291787702

GPT-9803 - ELECTRICAL SAFETY TESTER

GW INSTEK


- Provides solid foundation for reliable, safe and practical safety compliance testing
- 0.050KV to 5.000KV AC, 0.050KV to 6.000KV DC withstanding, 1Mohm to 9500Mohm insulating resistance

\$2,663.02

 Order Code
274853302

MP770800 - BNC BREAKOUT TEST LEAD

multicomp PRO


- 5.8" length
- BNC plug to 4mm stackable banana plugs
- 500Vrms voltage rating

30% OFF
\$11.78

 Order Code
370363602

PICOSCOPE 2204A-D2 - PC USB OSCILLOSCOPE

pico Technology


- 8KS capture memory, 100KHz AWG bandwidth, 35ns rise time
- 8 bit resolution
- Automatic measurements, serial decoding, persistence displays, mask limit testing, spectrum analysis

\$224.53

 Order Code
243291402

BK2840 - OHMMETER

BK PRECISION


- 4.3-inch colour touch screen
- 4-wire terminal Kelvin test leads included
- Low power resistance mode to protect DUT

10% OFF
\$1,446.81

 Order Code
284611202

MA194-250 - CURRENT PROBE

CHAUVIN ARNOUX


- Measurement range from 100mA to 10000A
- 70mm clamping diameter
- Dimension (L x I x H) is 130 x 80 x 18mm

\$553.29

 Order Code
441241102

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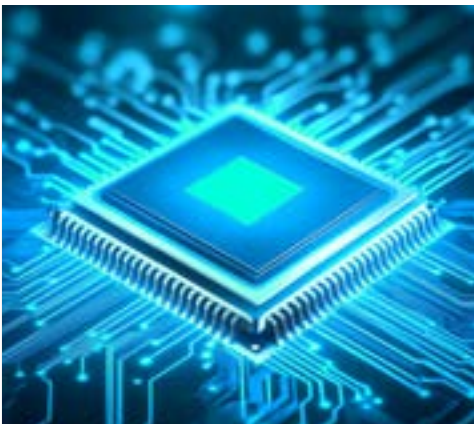


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PR100414 - REVPI CONNECT 5 BASE MODULE



- Processor type: ARM Cortex-A76
- RAM memory size: 4GB
- 4 cores

\$1,013.86

Order Code
466138002

RPI5-8GB-SINGLE - SBC



- System on chip Broadcom BCM2712, 2.4GHz quadcore 64-bit ARM Cortex-A76 with 512KB L2 caches and a 2MB shared L3 cache
- 8GB LPDDR4X-4267 SDRAM
- Dual 4Kp60 HDMI display output with HDR support

\$137.26

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425600002

GW16146 - WIFI RADIO BOARD



- Operating temperature range: -40°C to +85°C
- Dimension: 30.0x50.95x3.5mm (1.18x2.0x0.14in)
- Mini-PCIe form factor with USB 2.0 high-speed signalling

\$150.33

Order Code
395818502

PSG91701 - HDMI CABLE



- Micro HDMI AM plug to HDMI 2.0 DM plug
- High speed with Ethernet HDMI specification
- Supports video resolutions up to 4K UHD @60Hz

\$6.87

Order Code
321559902

MEFBATUV1 - BATTERY BOX



- Dimension is 52.5mm x 25.79mm
- 2x AAA battery enclosure
- Unswitched

\$3.10

Order Code
422597402

A000066 - SBC



- Microcontroller: ATmega328P
- Operating voltage of 5V
- Maximum supply voltage 6 to 20V

\$52.61

Order Code
207538202

A000073 - SBC



- ATmega16U2 instead 8U2 as USB to serial converter
- Stronger RESET circuit
- 1.0 Pinout

\$49.98

Order Code
228520002

DFR0327 - ARDUINO EXPANSION SHIELD



- Gravity Arduino shield for Raspberry Pi B+/2B/3B/3B+
- ATmega32u4 on-board microcontroller
- Arduino Leonardo chip, Arduino compatible pin mapping

\$31.10

Order Code
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83-17044 - GPIO BREAKOUT BOARD



- Features 3.3V and 5V power pins
- Keyed IDC header shroud
- Optimised design for better accessibility

\$8.45

Order Code
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K030007 - ARDUINO STARTER KIT



- Six popular Arduino starter kits (classroom 6-pack)
- Each kit contains an Arduino Uno Rev 3 board and a collection of sensors and actuators
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\$224.69

Order Code
466174302

1593HAMBONEBK - DEV BOARD ENCLOSURE



- Machined from the 1593 series plastic enclosures
- Machined to accept BeagleBone development board (not included)
- Moulded from general purpose ABS plastic with a satin texture

\$12.06

Order Code
235633002

SC1150 - POWER SUPPLY



- Input: 100-240 VAC
- Output: 5A at 5.1V, 3A at 9V, 2.25A at 12V, 1.8A at 15V
- Connector: USB-C

\$20.61

Order Code
426303702

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Featured SBC & Development Kits

102110420. - SBC



- BeagleBone® black based on sitara AM3358 processor
- Sitara AM3358BZCZ100 1GHz, 2000 MIPS ARM Cortex-A8 32-Bit RISC microprocessor
- On-board HDMI to connect directly to TVs and monitors



\$84.93

Order Code
352008102

900-83668-0030-000 - SOM



- Jetson Xavier™ NX 16GB module
- 384-core NVIDIA Volta™ GPU with 48 tensor cores, 6-core NVIDIA Carmel Arm@v8.2 64-bit CPU
- 2x NVDLA engines, 16GB 128bit LPDDR4x, 16GB eMMC 5.1, 2 x PVA



\$993.28

Order Code
412646902

RPI ZERO_W_V2 - SBC



- 65mm x 30mm form factor
- Broadcom BCM2710A1, quad-core 64bit SoC processor (Arm Cortex-A53 at 1GHz)
- HDMI interface and composite video



\$25.75

Order Code
383849902

ABX00071 - NANO 33 BLE REV2



- 3.3V I/O voltage, 5-18V input voltage (nominal) and 10mA DC current per I/O pin
- UART, I2C and SPI communication
- Bluetooth connectivity



\$46.27

Order Code
446076302

RPi5-4GB-SINGLE - SBC



- System on chip Broadcom BCM2712, 2.4GHz quadcore 64-bit ARM Cortex-A76 with 512KB L2 caches and a 2MB shared L3 cache
- 4GB LPDDR4X-4267 SDRAM
- Dual 4K 60Hz HDMI display output with HDR support



\$103.64

Order Code
425599802

DFR0478 - IOT MICROCONTROLLER BOARD



- Compatible with products in the DFRobot FireBeetle series
- Low power consumption (the electricity current under ultra-low power is 10µA)
- Quick response (the top frequency is 400KHz)



\$15.38

Order Code
351788102

102991694 - CARRIER BOARD



- Perfectly-suited design for Jetson Nano Module (260-pin SODIMM)
- SD card slot for storage expansion of nano module (16GB eMMC)
- Suitable for the good start and quick evaluation of AI applications



\$118.39

Order Code
412647002

102110577 - SBC



- TI CC1352P7 microcontroller (MCU) includes a 48-MHz Arm Cortex-M4F processor
- 704KB Flash memory, 256KB ROM, 8KB cache SRAM
- 144KB of ultra-low leakage SRAM, and OTA capability



\$46.33

Order Code
414133502

CM4108000 - RASPBERRY PI COMPUTE MODULE 4 LITE



- Features 8GB RAM, 0GB (Lite) eMMC storage and wireless connectivity
- Broadcom BCM2711, quad core Cortex-A72 (ARM v8) 64-bit SoC at 1.5GHz
- H.265 (HEVC) (upto 4Kp60 decode), H.264(upto 1080p60 decode, 1080p30 encode), OpenGL ES 3.0 graphics



\$138.18

Order Code
367891102

MEFV22G - SBC



- micro:bit works with Microsoft, MacOS, Apple iPads (and iPhones) and Android devices
- Computing is made physical
- Use the micro:bit to sense, measure and log light, temperature, sound, movement, magnetism



\$30.90

Order Code
384734202

110110145 - DEVELOPER KIT



- Compact size at 130mm x 120mm x 58.5mm
- 4x USB 3.2, HDMI 2.1, 2xCSI, 1xRJ45 for GbE, M.2 Key E, M.2 Key M, CAN, and GPIO
- Pre-installed JetPack with NVIDIA JetPack™ 5.1 on included 128GB NVMe SSD, Linux OS BSP, 128GB SSD



\$1,542.23

Order Code
420014802

DFR0981 - SBC



- Intel Celeron processor N5105(frequency: 2GHz to 2.90GHz), Microchip ATmega32U4-MU
- Intel UHD graphics(frequency 450MHz to 800MHz)
- 64GB eMMC V5.1 storage, dimension is 125 x 78 x 16mm



\$410.01

Order Code
395447302



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- Low power consumption
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- -10 to 60°C operating temperature range

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- 90°, black colour, 2NO configuration
- >0.25 million operations mechanical life
- >0.1 million operations electrical life

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- Extended terminals
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- 50mΩ maximum contact resistance

40% OFF

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Order Code **108251102**

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- UL, CSA and VDE recognised
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20% OFF

\$4.74

Order Code **109407702**

V3S UL - MICROSWITCH



- Side mounting
- Flying lead
- Robust construction

30% OFF

\$38.44

Order Code **116260202**

40.52.7.012.0000 - GENERAL PURPOSE RELAY



- PCB mount/plug-in
- 5mm pinning
- Sensitive DC coil

20% OFF

\$8.87

Order Code **116917302**

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Sensors

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- Meets the IEC 60127-2 sheet 2 specification
- Available in cartridge and axial lead form
- Rated voltage of 250VAC

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G4A01192C - FUSE



- Current interrupt capacity up to 10A at 250VAC
- Functioning temperature (Tf) range: 72°C to 257°C
- Available in cut, formed or terminated leads

20% OFF**\$1.44**Order Code
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WT-304-ANSI X 100M - THERMOCOUPLE WIRE



- Good mechanical strength and flexibility
- Single pair of PFA insulated conductors twisted together
- 1/0.2mm strand size, class 1 tolerance

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- Ø41mm aperture, 1ppm linearity
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FX0456 - FUSEHOLDER



- 2.5W maximum power dissipation (at 23°C)
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S202-C63 - THERMAL MAGNETIC CIRCUIT BREAKER



- Clear contact position indication in red/green (real CPI)
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PBS2-RB400SG1SSDLMA0Z - PRESSURE SWITCH



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50-124-06/32A - FUSE



- European style
- High interrupting rating up to 300kA
- 9.5W power loss

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03EN151044(50/35) - THERMOSTAT SWITCH



- 16A rated current at 250VAC
- Automatic function, 6.3 x 0.8mm terminals
- Up to 100,000 cycles

20% OFF**\$5.55**Order Code
242874502

GS100502 - HALL EFFECT SENSOR



- Sinusoidal vibration
- Anodized aluminum housing
- Operating temperature: -40 to 125°C

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197173702

DRG 010632A - RTD SENSOR



- Heavy-duty Pt100 probe to IEC751 standard
- Class B, 4-wire connection
- Rigid 316 stainless steel sheath, 6mm diameter

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5% OFF

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- 3in x 5in Footprint and less than 1U height

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117146702AT11DN-24-240 -
MULTIFUNCTION TIMER

- Signal start timing operation
- Control time selectable setting range: 0.05 seconds to 100 hours
- Unit contains two time limit, double pole, double throw, 250 volt AC/5 amp contacts

10% OFF

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173681302CR10000700000210 - HMI
PANEL

- 7" HMI, 7 inch size, 800 x 480 pixel
- 2/1 serial Ethernet ports, SD card slot
- Wide operating temperature, high shock and vibration tolerance

20% OFF

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291547102PDM71001ZX - POWER
DISTRIBUTION MODULE

- Maximum total continuous current rating of 250A
- Thermoplastic base and cover with a UL 94 V-0 flammability rating
- 58VDC max voltage rating continuous, 58VDC max voltage rating

20% OFF

\$43.96Order Code
351597802GST60A24-P1J - AC/DC
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- Short circuit, overload and over voltage, over temperature protected
- 3 pole AC inlet IEC320-C14, class I power unit
- Energy efficiency level VI

5% OFF

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281591602TXN 35-124 - AC/DC
ENCLOSED POWER SUPPLY
(PSU)

- Compact metal case with screw terminal block
- Universal input 90-264 VAC
- I/O reinforced isolation 3000 VAC

5% OFF

\$19.99Order Code
457480202METSEPM5110 - POWER
METER

- Easy to install and operate
- Easy circuit breaker monitoring and control
- Direct metering of neutral current

40% OFF

\$825.18Order Code
283542102

FS-2. - PADDLE FLOW SWITCH



- Field adjustable set point adjustment screw allows for easy flow switch modification
- Custom application set points enabled by field adjustable vane layers
- Aluminum weatherproof housing permits outdoor installation

50% OFF

\$583.57Order Code
428571902



STAYING AHEAD IN THE ERA OF AI

ACCELERATE YOUR JOURNEY INTO INTELLIGENCE

Author: element14 Technical Marketing Team

Edge AI is a technology that enables real-time data processing in embedded devices like microcontrollers, microprocessors, and sensors, offering faster response times, greater bandwidth efficiency, and reduced latency, data transmission, and power consumption. It enhances security and privacy, offering advantages over cloud computing. Edge AI is paramount in industrial, automotive, and real-time connected smart device applications, where response time, reliability, and security are essential. It allows complex features like vision, voice, and sensor fusion in devices with limited power and computing resources, thereby expanding edge possibilities while maintaining low costs.

Edge AI Hardware

Edge AI uses specialised hardware to balance compute performance, power efficiency, and cost, ranging from low-power microcontrollers to high-performance microprocessors and dedicated AI accelerators. This approach addresses the strain on resources and reduces system efficiency in AI workloads. Advanced MCUs are equipped to run lightweight AI models, with software frameworks optimising DSP capabilities for AI face recognition-based applications. Heterogeneous devices, which combine high-performance MCUs and MPUs with built-in NPU hardware acceleration and advanced AI fine-tuning workflows, can accelerate the deployment of AI models in low-power MCUs. Heterogeneous computing platforms are increasingly used for AI applications.

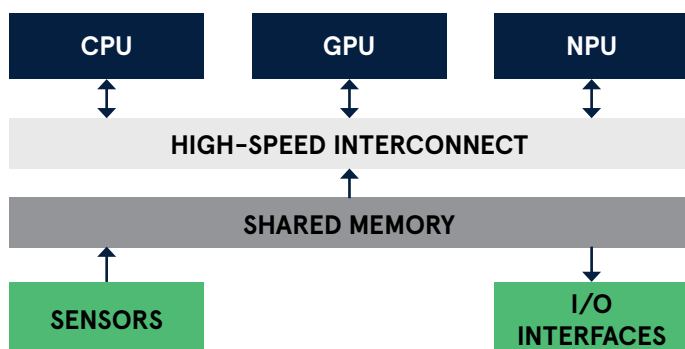


Figure 1: Edge AI Heterogeneous platform

The AI MPU Platform application processors, based on 64-bit platforms with Arm Cortex®-A & Cortex®-M cores, offer higher performance, speed, and extended connectivity options (Ethernet switch, TSN support, PCIe, USB3, LVDS, DSI, and parallel display interfaces). MPU-supported AI applications use AI algorithms and models to enhance functionality in vision, robotics, and edge computing, often utilising integrated AI accelerators or AI-optimised processing capabilities.

Comparison of general-purpose and AI processors

General Processor	AI Processor
A general-purpose microcontroller or microprocessor used in a wide range of embedded systems.	The processor is specifically designed for accelerating AI workloads using AI/ML neural network algorithms.
May have one of more central processing unit (CPU) cores.	AI processor (accelerator) may be integrated on-die with ordinary processor cores for space- and energy-efficient designs.
Architecture is optimised for sequential tasks. Slow and less efficient AI workloads.	Architecture is optimized for parallelism, performing huge numbers of matrix calculations concurrently.

Why do we need AI Accelerators?

AI accelerators like GPUs, TPUs, and FPGAs are specialised for handling neural network tasks efficiently. They boost AI performance by speeding up matrix operations and reducing latency. Whether training models in the cloud or running real-time inference at the edge, accelerators deliver faster, smarter, and more power-efficient AI processing.

Where to start?

Fine-tuning between hardware, software, and AI/ML algorithms, is crucial for a successful implementation of machine learning tasks. Using the right data sets, tools and hardware components will reduce development time and risk.

Multi-core Microcontroller solutions:

The cutting-edge Neural-ART Accelerator from STMicroelectronics, a proprietary neural processing unit (NPU) that delivers exceptional efficiency in handling AI tasks. It is compatible with TensorFlow Lite, Keras, and ONNX, and will continue to expand. The ONNX format allows data scientists to use the STM32N6 for a wide range of AI applications.

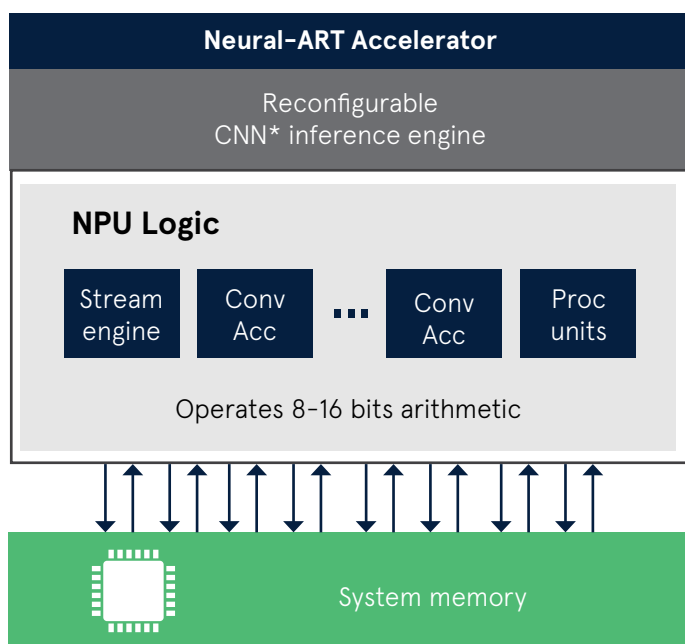



Figure 1: Neural-ART Accelerator architecture

The Neural-ART Accelerator (Figure 1) is a flexible dataflow stream processing engine that operates 8-16 bits arithmetic and offers hardware acceleration for various neural network architectures. The STM32N6, based on Arm® Cortex®-M55, integrates ST's in-house Neural-ART Accelerator™, delivering up to 600 GOPS and real-time AI inference for vision and audio. Its flexible stream-processing engine scales from 72 to 2304 MACs, achieving up to 4.6 TOPS. For more advanced applications, the STM32MP2 MPU supports machine vision through powerful multimedia features. The MAX78002 offers an ultra-low power AI MCU with a dedicated CNN accelerator and Cortex®-M4 core, ideal for always-on edge devices. These multi-core solutions enable developers to deploy responsive, energy-efficient AI workloads directly at the edge.

Multicore Microprocessor solutions

NXP's multicore microprocessor solutions, including the i.MX 8M and i.MX 9 series, combine high-performance compute with advanced audio, video, and AI capabilities for edge applications. Powered by the scalable eIQ® Neutron NPU, they support a range of neural networks—CNNs, RNNs, Transformers, and more. The eIQ ML software and eIQ Auto toolkit accelerate development for industrial and automotive-grade AI. With optimized performance-per-Watt and real-time processing, solutions like the i.MX RT700 enable intelligent edge devices, machine vision, speech recognition, and 4K video streaming.

	STM32MP257F-DK is a discovery kit for application processor STM32MP2 series based on the Arm® Cortex® A35 and M33	
	Evaluation Kit, MAX78000, Artificial Intelligence Microcontroller, Arm Cortex-M4F	
	AMD Kria™ KD240 Drives Starter Kit	
	Low-cost and compact freedom development board featuring the i.MX93 applications processor	
	Development board for deep learning, vision and multimedia accelerators, BeagleBone® AI-64	

Conclusion

Staying ahead in the era of AI requires harnessing the right hardware to unlock AI's full potential. AI adoption is becoming essential to stay ahead in the future. Leading semiconductor suppliers are delivering advanced AI chips, accelerators, and edge computing solutions, fueled by ultra-efficient microcontrollers and high-performance processors. To stay ahead, organisations must strategically invest in hardware that will shape intelligent systems, embracing these technologies.

ARTIFICIAL INTELLIGENCE AT THE EDGE

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- Beam accuracy: H/V Line $\pm 3\text{mm}/10\text{M}$
- Max working distance: 30m

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MP710996 - BENCH POWER SUPPLY

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- High-precision voltage and current output, and maximum resolution 0.1mA of current reading.
- Constant voltage/constant current operation

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- Maximum electrical rating is 600V
- Copper tube connector with tin-plating

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MP014086 - ELECTRICIAN SCISSORS

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- Product size: 160mm x 82mm x 22mm
- Product weight: 104g

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MP015189 - TWEEZERS

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- Extra fine/sharp tip, perfect for precise work
- 120mm length provides a comfortable and controllable reach
- Made from stainless steel- excellent durability and corrosion resistance

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HS403 - ADHESIVE LINED HEAT SHRINK TUBING

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- Minimum shrink temperature is 70°C
- 4:1 shrink ratio
- 3.9ft

40% OFF

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MP015196 - CROSS KEY WRENCH SET

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- Material: Zinc alloy die-cast body
- Chrome vanadium: Steel for double-end bit, carbon steel for socket adapter
- Finish: Sandblast finish

40% OFF

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456860802

MP013953 - 7-IN-1 SCREWDRIVER SET

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- 1PC ratchet screwdriver
- 6PCS bits 25mm, SL4-5-6mm, PH1-PH2-PH3
- Main material: CRV

40% OFF

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PP002047 - CABLE TIE

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- Excellent resistance to ultraviolet light
- Pack of 100

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Recommendations from the Multicomp Pro Team

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multicomp^{PRO}

- Pre-assembled & prewired light tower
- Super bright multi-chip LED technology
- IP66 ingress protection

10% OFF

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MP014889 - ENCLOSURE

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- 10 inch Raspberry Pi 5 touch screen enclosure
- All connection cut-outs
- Heat ventilation

20% OFF

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MP015227 - SPRING LOADED CONNECTOR

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- 4 contacts
- Gold-plated contact plating
- Brass contacts

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- All-in-one 88-piece set
- Designed for precision electronics repair, maintenance, and assembly
- RoHS compliant

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- Power input of +5V to +30VDC
- Wide temperature range: -10°C to +60°C

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MPDRA-1-KSLE60D20-L - SOLID STATE RELAY

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- DIN Rail mount
- Integrated fast fuse protection
- SSR failure or load disconnection

30% OFF

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458732402

MP015228 - CABLE

multicomp^{PRO}

- PVC 45P black molding
- Conductor resistance: 2Ω
- Insulator resistance: 10MΩ

40% OFF

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MP015200 - INSTRUMENT BAG

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- Material : 600D polyester /210D nylon
- With adjustable function & buckle
- Size: 320 × 200 × 250mm

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MP-4T2A0 - TEMPERATURE CONTROLLER

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- Provides flexibility in control applications
- Enhances control precision and scheduling

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- Various hole mounting options
- RoHS compliant

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- Output voltage range: Up to 2.5KV
- PI/DAR measurement
- Short circuit current measurement

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445852002

MP015201 - INSTRUMENT POUCH

multicomp^{PRO}

- Material: Soft PVC
- Size: 120 × 200 × 50mm
- Perfect for holding small electronic accessories

40% OFF

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456861302



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