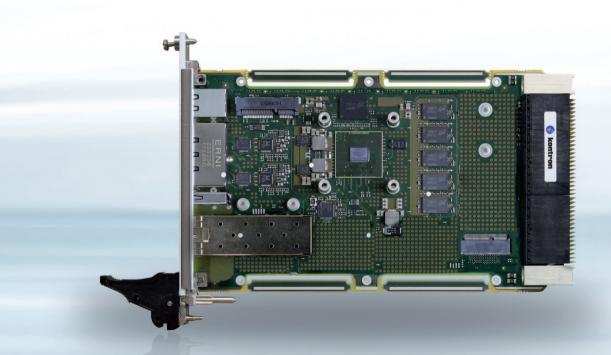
VX3106



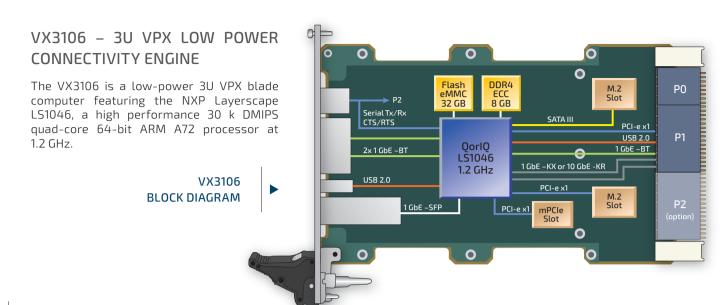




LOW POWER NETWORKED BLADE COMPUTER DESIGNED FOR TRANSPORTATION AND SWAP-C DEFENSE APPLICATIONS

- ▶ Quad-Core 1.2 GHz Multicore 64-bit ARM® A72 "Layerscape" Processor
- ► High Performance Neon SIMD Co-processor and DP FPU
- ▶ 6 Ethernet Ports, option for 2 Ethernet 10 G BASE-KR
- ▶ High Capacity of Storage: 32 GB eMMC and M.2 SATA III SSD Sockets
- ▶ Low Power, <20 W on single +12 VDC Supply, Natural Convection enabled
- ▶ 10 years Long Term Supply and Support





► TECHNICAL INFORMATION

FEATURES	Form Factor	3U VPX, 1" (5HP) 4 HP build version as option Slot profiles: SLT3-PAY-2F2U-14.2.3, SLT3-PAY-1F1F2U-14.2.4, SLT3-PAY-1F1U-14.2.10
	Processor	One NXP QorlQ Layerscape LS1046A Quad-Core 64-bit ARM® Cortex®-v8 A72 1.2 GHz upgradable to 1.8 GHz, 2 MB L2 cache, Neon SIMD Co-processor and DP FPU
	System Memory	8 GB 72-bit DDR4 SDRAM at 1600 MT/s with ECC
	SPI Flash	Firmware Boot Device, 2x 128 Mbits
	eMMC Flash	32GB eMMC MLC flash
	F-RAM	F-RAM 1 Mbit of non-volatile ferroelectric RAM
	EEPROM	One serial 256 Kbit EEPROM dedicated to VPD data, One serial 256 Kbit EEPROM dedicated to system data
	Security	Dual secure elements, TPM and Wibu, which can be enhanced with Kontron SEC-LINE product
FRONT I/O INTERFACES (AIR- COOLED BUILDS):	Ethernet ports	$2 \times 1 \text{G BASE-T}$ on RJ-45 connectors, $1 \times \text{SFP}$ cardcage, copper 1000BASE-T and fiber are supported
	USB	USB 2.0
	Serial	EIA-232 Tx, Rx, RTS, CTS serial line on IEEE1394 connector
REAR I/O INTERFACES	PCI-Express	x1 Gen. 3, second x1 lane as option
	Ethernet ports	2×1 G BASE-KX; dual 10 Gb BASE-KR as a build option, 1×1 G BASE-T
	USB	Up to 2 depending on build version
	GPIO	Up to 5 GPIOs
	Monitoring port	SMB on PO connector
	Serial Lines	2x Tx, Rx EIA-232 on optional P2 connector
EXPANSION SLOTS	M.2	M.2 on Top: SATA III, M.2 on bottom (5 HP version): PCI-Express x1
	mPCle	PCI-Express x1, USB 2.0 as option
VARIOUS INTERFACES	CPU debug Interface	JTAG debug connector for CodeWarrior TAP
	Board Temperature	ADT7461A on-chip thermal sensor and remote thermal diode. Three LM73 thermal sensors.
	Firmware	U-Boot
	Power Supply	+12 VDC only
	Power Consumption	Less than 20 W without mezzanines
	Environmental Specification	Forced Air Cooled "SA" (0°C to +55°C), Forced Air Cooled "WA" (-20°C to +65°C) Rugged Conduction Cooled "RC" (-40°C to +85°C), Natural Convection cooled: contact Kontron

► CORPORATE OFFICES

FRANCE

ZI de Toulon-Est - BP 244 83078 TOULON CEDEX 9 Tel.: + 33 4 98 16 34 00 Fax: + 33 4 98 16 34 01 sales.KFR@kontron.com

150 rue Marcelin Berthelot

GLOBAL HEADQUARTERS

Lise-Meitner-Str. 3-5 86156 Augsburg Germany Tel.: + 49 821 4086 0

Fax: + 49 821 4086 0 Fax: + 49 821 4086 111 info@kontron.com

NORTH AMERICA

9477 Waples Street, Suite 150 San Diego, CA 92121 USA Tel.: + 1888 294 4558

Tel.: + 1888 294 4558 Fax: + 1858 677 0898 info@us.kontron.com

ASIA PACIFIC

1~2F, 10 Building, N° 8 Liangshuihe 2nd Str., Economical & Technol. Development Zone, Beijing, 100176, P.R.China Tel.: +86 10 63751188 Fax: +86 10 83682438 info@kontron.cn