ALR
RUGGED SOLUTIONS

BISON VX-Server
Customizable and extremely ruggedized vehicle server

The ALR-IPC BISON VX-Server is built for use in industrial and military applications which require this type of robust and reliable system.

The Bison VX-Server complies with MIL-STD 810 as well as with high EMC/EMI standards such as MIL461/704/1275 it operates on a 24V DC power environment.

A optional UPS function with a LiFePo battery pack can power the system for some minutes independently if the power inputs fail.
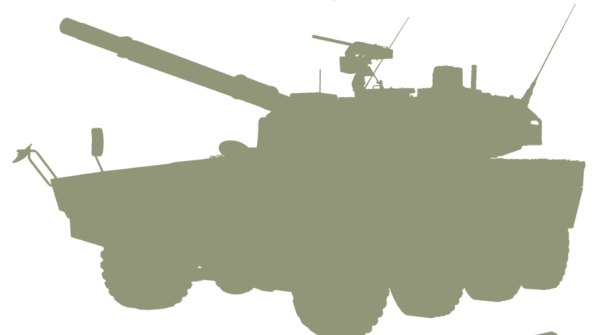
One of the major advantages of the BISON VX Server is that there are few customization limits. Changes in mechanical structure and various hardware options are available even in small quantities.

- **Modular fanless design**
- **Intel Xeon D, 4 up to 16 Core**
- **Up to 128GB ECC DDR4 RAM**
- **Power in 24V DC**
- **Optional integrated UPS function**
- **Customized MIL I/O Connectors**
- **Operating from –30°C to +55°C**
- **MIL-STD 810G compliant**

CERTIFIED IP54

CERTIFIED MIL-STD 810G

ALR Rugged Solutions GmbH

Feldwiesenstr. 8   Phone: [+49] 7745-92588-0

D-79087 Lottstetten   inquiry@alr-rugged.com

www.alr-rugged.com

A Baytek Company

BISON VX-Server
Customizable and extremely ruggedized vehicle server

Dimensions/Weight	
Housing	Rugged aluminum housing with anti corrosion treatment Powder coating in RAL colors
Approx. Dimension in mm	B: 325, T: 124, H: 290 (without connectors)
Weight	approx. 9-12kg (depending on configuration)

Hardware Configuration	
CPU Type	Intel Xeon D 4 up to 16 Core
RAM	16 up to 128GB ECC DDR4
SSD	1 or 2 military grade SSDs 8GB-2TB
I/Os	2x Gbit-LAN RJ45, 2x 10Gbit-LAN RJ45, 2x USB2.0, 3x USB3.0 1x RS232, 1x VGA

DC Power supply / UPS Function	
Power supply	200W, 24V DC input
UPS Option	Internal LiFePo battery for some minutes backup time and automatic shutdown function

Customizing Options	
MIL-Connectors	MIL-connectors for all I/Os according to customer specs
Project Customizing	Integration of customer I/O boards or special hardware components according to customer specs Customized painting in all RAL colors

Operating System	
	Microsoft Windows 7, Windows 10, Linux, VMware

Environment	
Temperature	MIL-STD810F*
Operating	-30°C up to +55°C
Storage	-33°C up to +71°C
Humidity	MIL STD 810F 5% to 95% relative humidity, without condensation*
IP protection	IP54 up to IP65
Vibration	MIL-STD 810G * Method 514.5
Shock	MIL-STD 810G* Method 516.6-1
Regulations	CE, RoHS
EMC/EMI	MIL-STD 1275B, MIL-STD 461F* * built to be compliant to