RM
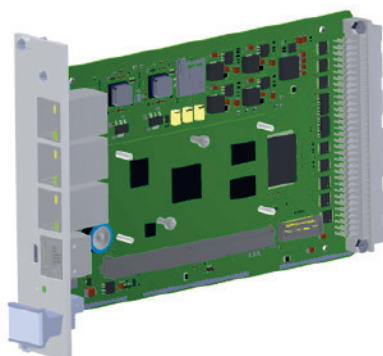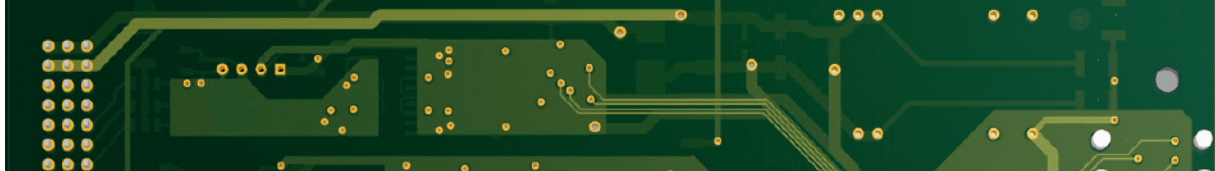
www.rail-mil.eu

X7 CARDS

VME CPUs AND EXTENSIONS

X7-PSM1

The X7-PSM1 processor card is used to process data from communication interfaces. It enables managing the X7 system card cage and optionally VME for implementing control functions. Card performance is dependent on the CPU module installed. The X7-PSM1 card can have a mSATA, SSD or µSD card. The processor can run under Linux, QNX®, OS-9 operating systems.
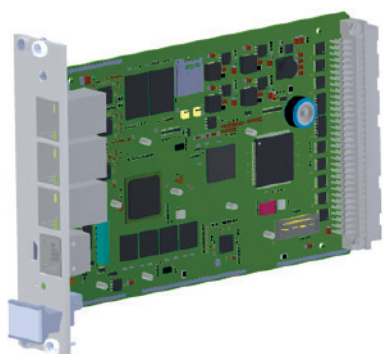
Front panel width 6TE.

Power supply:
- Power supply — 5V DC / < 1.6A @ VME
- Power dissipation — up to 8W

Available interfaces:
- Ethernet — 3 × 1Gb/s
- VME bus — A24:D08/D16 Master
- Mass storage — 1 x mSATA, µSD
- USB — 1 × USB 2.0
- Serial — 1 x RS232 TERM
- Extension interface — 1 x xPSM®

made in POLAND

X7-PSM2

The X7-PSM2 processor card is used to process data from communication interfaces. It enables managing the X7 system card cage and optionally VME for implementing control functions. The X7-PSM2 card can have a mSATA, SSD or µSD card. The processor can run under Linux, QNX®, OS-9 operating systems.
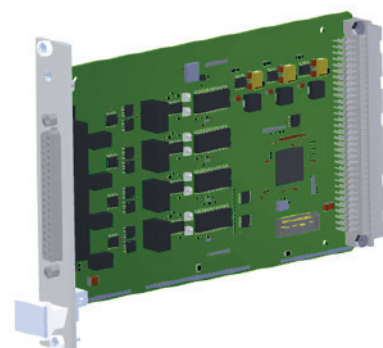
Front panel width 6TE.

Basic parameters:
- CPU — PowerPC P1010 800 MHz
- RAM/Flash — 2GB / 8 GB

Power supply:
- Power supply — 5V DC / < 1.6A @ VME
- Power dissipation — up to 8W

Available interfaces:
- Ethernet — 3 × 1 Gb/s
- VME bus — A24:D08/D16 Master
- Mass storage — 1 x mSATA, µSD
- USB — 1 × USB 2.0
- Serial — 1 x RS232 TERM
- Extension interface — 1 x xPSM®

made in POLAND

X7-PSM-CAN4

X7-PSM-CAN4 extends the functionality of the X7-PSMx family CPUs with CAN-transmission channels. It has four independently isolated CAN transmission channels. The card supports two versions of the currently used protocol: the standard 2.0A (11-bit identifier) and the extended 2.0B (29-bit identifier).

Front panel width 4TE.

Interfaces:
- Transmission connector — DSUB37
- Interface — xPSM®
- Power supply — 5V DC / 170mA from CPU

CAN transmission parameters:
- CAN controller — SJA-1000
- Maximum speed — up to 1Mb/s
- Supported standards — CAN 2.0A, CAN 2.0B

made in POLAND

X7-PSM-ETH2

X7-PSM-ETH2 extends the transmission capabilities of the X7-PSMx processors' family. It includes 2 isolated RS232 serial communication ports and two 1Gb/s Ethernet ports. On the front panel of the module there are LEDs that indicate the state of the processor, for the use of the system designer.
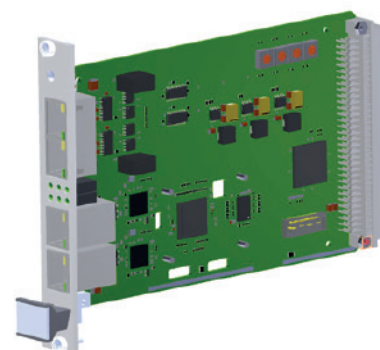
Front panel width 4TE.

System interfaces:
- Interface type   xPSM®
- Power supply   5V DC / 170mA

Transmission interfaces:
- Interface type   RS232
- Connector type   RJ45
- Maximum speed   up to 115.2kb/s
- Flow control   CTS, RTS

- Interface type   ETH 1Gb/s
- Connector type   RJ45
- Supported protocols   IPv4, IPv6 TCP
- Automatic crossover   MDI/MDI-X

made in POLAND

X7-PSM-ETH4

X7-PSM-ETH4 extends the transmission capabilities of the X7-PSMx processors' family. It has 4 Ethernet ports including 2 RJ45 ports and 2 SFP ports. SFP modules allow the installation of fiber-optic transceivers and long distance transmission.
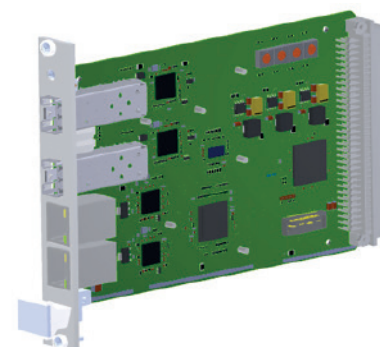
Front panel width 4TE.

System interfaces:
- Interface type   xPSM®
- Power supply   5V DC / 190mA

Transmission interfaces:
- Interface type   ETH 1Gb/s
- Connector type   RJ45
- Supported protocols   IPv4, IPv6 TCP
- Automatic crossover   MDI/MDI-X

- Interface type   ETH 1000Base X
- Connector type   SFP MSA
- Supported protocols   IPv4, IPv6 TCP

made in POLAND

X7-PSM-XMC

X7-PSM-XMC extends the transmission capabilities of the X7-PSMx processors' family. It enables the installation of the XMC module. Communication from the CPU is performed using the xPSM® x1 PCI-Express interface.

Front panel width 4TE.

System interfaces:
- Interface type   xPSM®
- Power supply   12V DC
     3.3V DC

made in POLAND
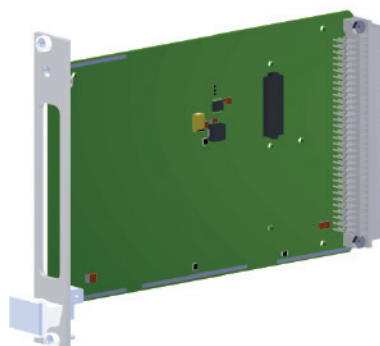
RM

www.rail-mil.eu

Rail Mil Computers Sp. z o.o. Sp. komandytowa

03-982 Warszawa, ul. Kosmatki 82

tel.: +48 222 099 450

fax: +48 222 099 455

www.rail-mil.eu

biuro@rail-mil.eu

WE ARE A PARTNER FOR THE FOLLOWING COMPANIES:

ERTMS SOLUTIONS   expandium   ADLINK Leading EDGE COMPUTING   Apacer®   redhat