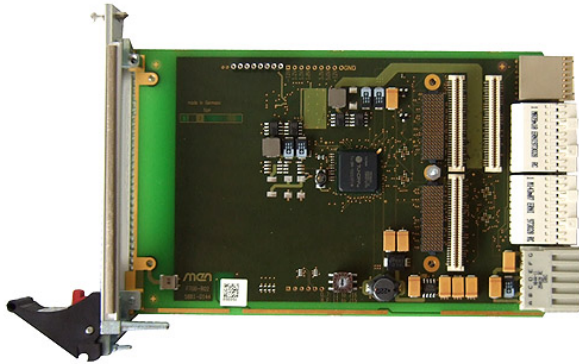


F700 - 3U CompactPCI® Express XMC/PMC Carrier



- 1 CompactPCI® Express bus slot
- 1 XMC slot (2 PCI Express® links) or
- 1 PMC slot (32-bit, 64-bit, PCI-X up to 133MHz)

The F700 is a universal 3U XMC or PMC carrier board for I/O with high speed requirements in a CompactPCI® Express environment. It allows to add I/O functions to a CompactPCI® Express system in a flexible way. Combined with MEN's scalable Intel® Core™ (2) Duo / Pentium® M single-board computer family it can also be used in CompactPCI® / CompactPCI® Express hybrid systems.

The F700 offers instant access to the already existing high-speed XMC modules on the market as well as to the

huge range of legacy PMC modules of all different speed types. It supports efficient modular system extension with I/O that reaches from typical computer functions like communication or graphics up to the whole world of industrial functions with analog and binary I/O, measurement, instrumentation, motion control, or fieldbus interfaces.

Technical Data

XMC Slot

- Compliant with XMC standard VITA 42.3-2006
- Two configurations adjustable via hex switch
 - Two PCI Express® links with four lanes each on J15
 - Two PCI Express® links with eight lanes each on J15 and J16

PMC Slot

- Via PCI Express® to PCI-X Bridge
 - Support of PCI-X or PCI local bus specification 2.2
 - Support of one PCI Express® link with up to four lanes
- 32/64-bit, 33/66MHz
- PCI-X, 133MHz

CompactPCI® Express

- Compliance with CompactPCI® Express PICMG EXP.0 R1.0 Specification
- CompactPCI® Express connector XP1 for power supply
- CompactPCI® Express connectors XJ2 and XJ3 for two CompactPCI® Express links with one, four or eight lanes each
- CompactPCI® Express connector XJ4 for control signals and ground

Electrical Specifications

- Supply voltage/power consumption:
 - +12V (-5%/+5%) for XMC and PMC (from CompactPCI® Express backplane connector)
 - +5V (-5%/+5%) for PMC (from CompactPCI® Express backplane connector)
 - +3.3V (-5%/+5%) for XMC and PMC (from CompactPCI® Express backplane connector)
 - -12V (-10%/+10%), 100mA (generated onboard for XMC and PMC)
- MTBF: tbd @ 40°C according to IEC/TR 62380 (RDF 2000)

Mechanical Specifications

- Dimensions: standard single Eurocard
- Front panel: 4HP with ejector
- Weight: 152g

Environmental Specifications

- Temperature range (operation):
 - 0..+60°C
 - Airflow: min. 10m³/h
- Temperature range (storage): -40..+85°C
- Relative humidity (operation): max. 95% non-condensing
- Relative humidity (storage): max. 95% non-condensing
- Altitude: -300m to + 3,000m
- Shock: 15g/11ms
- Bump: 10g/16ms
- Vibration (sinusoidal): 2g/10..150Hz
- Conformal coating on request

Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

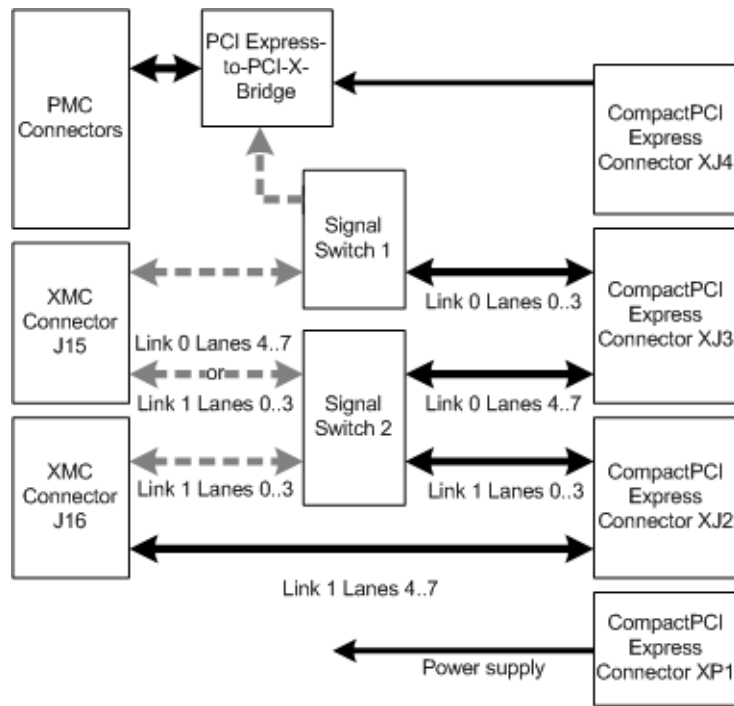
EMC

- Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)

Software Support

- XMC and PMC drivers as supported
- For more information on supported operating system versions and drivers see Software.

Diagram



Ordering Information

Standard Hardware

02F700-00 1 XMC or PMC slot, 0..+60°C

Documentation

20F700-00 F700 User Manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the F700 online data sheet under » www.men.de.

Germany

MEN Mikro Elektronik GmbH
Neuwieder Straße 5-7
90411 Nuremberg
Phone +49-911-99 33 5-0
Fax +49-911-99 33 5-901
E-mail info@men.de
www.men.de

France

MEN Mikro Elektronik SA
18, rue René Cassin
ZA de la Châtelaine
74240 Gaillard
Phone +33 (0) 450-955-312
Fax +33 (0) 450-955-211
E-mail info@men-france.fr
www.men-france.fr

USA

MEN Micro, Inc.
24 North Main Street
Ambler, PA 19002
Phone (215) 542-9575
Fax (215) 542-9577
E-mail sales@menmicro.com
www.menmicro.com

The date of issue stated in this data sheet refers to the Technical Data only. Changes in ordering information given herein do not affect the date of issue.

All brand or product names are trademarks or registered trademarks of their respective holders.

Information in this document has been carefully checked and is believed to be accurate as of the date of publication; however, no responsibility is assumed for inaccuracies. MEN Mikro Elektronik accepts no liability for consequential or incidental damages arising from the use of its products and reserves the right to make changes on the products herein without notice to improve reliability, function or design. MEN Mikro Elektronik does not assume any liability arising out of the application or use of the products described in this document.

The products of MEN Mikro Elektronik are not suited for use in nuclear reactors or for application in medical appliances used for therapeutical purposes.

Application of MEN's products in such plants is only possible after the user has precisely specified the operation environment and after MEN Mikro Elektronik has consequently adapted and released the product.

Copyright © 2010 MEN Mikro Elektronik GmbH. All rights reserved.