+85°C

-40°C

MPCX27MIL

The IP67 protected computer with MIL connectors

The MPCX27MIL is well sealed against water and has waterproof MIL cable connections. A flash disk is built-in (SATA 40GB SSD or optional CompactFlash) for mass storage. The Atom processor offers high computer performance with only 12 Watt power consumption. For expansion, optional GPS, GSM and WLAN with waterproof N-type antenna connectors are available. Functional expansion is possible with an internal PCI/104express card and the signals use a 48pin MIL connector. A very robust aluminum housing integrates passive, fanless cooling to allow a broad working temperature range.

Applications

_ Integration in military vehicles and aircraft

_ MIL-STD 810G certified, -40C to +85C

_ For 24-48V battery power supplies

_ 16G vibration, 150G shock

Ordering information

Item	No.	Description
Option MPCX27 WLAN	807420	MiniCard Intel 4965AGN with antenna cable
Opt. MPCX27 GSM UMTS/GPRS	807424	GSM assembled with antenna cable
Option MPCX27 GPS A1080	807422	GPS assembled with antenna cable
MPCX27MIL-Cablekit	807428	1x 37pin female I, 1x 37pin female II, 1x 53pin female
MPCxx N-Coax Antennacable	814694	N-Coax with 2m cable to SMA-Plug connector

DIGITAL-LOGIC
smart embedded computers

Technical data

Type	MPCX27MIL
CPU	Intel® Atom 510, 1.1GHz
Chipset	Intel® US15W
Memory	1GB
SSD-Drive	32GB
Optical drive	-
Video controller	US15W
Video interface 1	QXGA (MIL)
Video interface 2	LVDS (MIL)
Resolution	2048 x 1536 (@ 75Hz)
Keyboard, mouse	USB
Serial interface COM1 (Ringwake)	RS232C (MIL)
Serial interface COM2	RS232C or GPS (MIL)
Parallel interface	-
USB V2.0	4x (MIL)
Firewire IEEE1394	-
LAN Port A (with LAN boot), (LAN wake)	100/10MB-LAN (MIL)
LAN Port B	100/10MB-LAN (MIL)
Audio controller	AC97-2.3
Line output	Stereo (MIL)
Line input/mic. input	Stereo (MIL)
Acceleration sensor	0.001-6G, 3-Achsen
Option 1	WLAN PCIe MiniCard UMTS/GPRS
Option 2	48 user I/O pins on X3
Option 3	GSM PCIe MiniCard
Option 4	GPS
Digital input/output	-
Remote power on/off	yes
DC-Voltage input/power V1248	8V-58VDC / typ. 15W (MIL)
DC-Voltage input (isol.)	-
Expansion	PCI/104ex
Power save function	Suspend/Resume, SoftOff, Instant On
Conformity	CE, FCC, MIL810
Protection class	IP67
Size (W x L x H in mm)	110 x 150 x 60
Weight	1 kg
Housing	Aluminium
Colour	olivegreen
Noise level	0dB(A)
Operating temperature	-40°C to +85°C @ 1.1GHz MIL810
Extended operating temperature	-
Vibration/shock incl. SSD	16/150G MIL810
MTBF	100'000h
For operating systems	WIN2000, WIN XP, LINUX
Part no. MPCX27MIL-V1248	814720

Manufacturer:

DIGITAL-LOGIC
smart embedded computers

DIGITAL-LOGIC | Nordstrasse 11/F | CH-4542 | Luterbach / Switzerland
Phone +41 (0)32 681 58 00 | Fax +41 (0)32 681 58 01
sales@digitallogic.com | www.digitallogic.com

Distribution: