MPCX28
with mounted
option 814325,
front cover

MPCX28

The compact and energy-efficient vehicle computer

The MPCX28 is based on the Intel Atom processor and typically only needs 12 Watts power consumption. On the front is an exchangeable, robust SATA hard disk (a flash disk is optional) as well as a CF bracket. Expansion options include GPS, GSM and WLAN. Absolutely noiseless operation is achieved through a rugged aluminum profile which integrates passive and fan-free cooling. Other functions (e.g. CAN) can be integrated by the manufacturer through PCI/104 cards. . Customer specific functions such as Ring On Wake, Event Wake Up or Wake On LAN can be realized using FPGA and a microcontroller.

Applications

_ Integration in cars, busses, trucks

_ Passenger entertainment, communication, measurement computer

_ For 12-48V motor vehicle battery power supplies

_ e1 certified

Ordering information

Item	No.	Description
Option 80GB 24h SATA	807411	80GB Harddisk automotive, SATA, 24h, seagate
Option 32GB SSD	807417	SATA2 SLC 2.5"-SSD Intel
Opt. MPCX48/28 Front cover	814325	IP52 Protectioncover
Option MPCX28 WLAN MCex	807430	MiniCard Intel 4965AGN with antenna cable
Option MPCX28 GPS A1080	807432	GPS assembled with antenna cable
Opt. MPCX28 GSM UMTS/GPRS	807434	PCIex MiniCard UMTS ass., with antenna cable
Opt. MPCX48 2xCAN PEAK.	814369	2xPeak CAN opto-isolated
MPCxx Poweradapter	807436	110/220VAC , 90W Supply, with M12 connector (19V)
MPCxx M12 Powerconnector	814690	M12-Plug with 2m cable for DC input 12-48VDC
MPCxx M12 USB to Std.USB	814691	M12-Plug with 2m cable to Standard USB connector
MPCxx M12 LAN to Std.LAN	814692	M12-Plug with 2m cable to Standard RJ45-LAN

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Technical data

Type	MPCX28
CPU	Intel® Atom™, 1.6GHz
Chipset	Intel®
Memory	1GB
Ext. Temp. Harddisk SATA exchangeable[1]	0GB, option: 2.5" 80GB or 32GB SSD
Optical drive	-
Video controller	Intel®
3D-Support	DirectX 9
Video interface 1 (digital)	DVI-I
Video interface 2 (analog)	DVI-I
Resolution	2048 x 1536 (@ 75Hz)
Keyboard, mouse	USB
Serial interface COM1/CAN (Ringwake)	RS232C, RS422/85
Serial interface COM2/CAN	RS232C, RS422/85
Parallel interface	Digital I/O (opt. LPT/CAN)
USB V2.0 Standard	2x Rückseite, 2x Frontseite
USB V2.0 M12	-
Ext. SATA interface (ESATA)	300MB/sec
LAN Port A (with LAN boot), (WOL)	1Gbit/s (RJ45)
LAN Port B	1Gbit/s (RJ45)
Audio controller	AC97-2.3, DSub + jack
Line output	Stereo, DSub
Line input/mic. input	Stereo, DSub
Option 1	WLAN Mini Card
Option 2	Dual-CAN, IBIS (PC/104)
Option 3	GSM Mini Card UMTS/GPRS
Option 4	GPS AC80
Digital input/output	4x out/4x opto in
Remote power on/off	yes
DC voltage input (not isolated), V1248	8-58VDC/typ.15W
DC voltage input (1.5kV isolated), Ixx	-
Plug-in power supply	110/220V AC Option
Expansion	2x PCIe Mini Card, 1x PCI/104
Power save function	Suspend/Resume, SoftOff, Instant On
Conformity	CE, FCC, e1
Protection class	IP52
Size (W x L x H in mm)	159 x 190 x 66
Weight	3 kg
Housing	Aluminium
Colour	anthracite/black anodized
Noise level	<20dB(A)
Operating temperature (with HD)	-30°C to +60°C
Extended operating temperature (with SSD)	-40°C to +70°C (SSD, no HD)
Vibration/shock incl. HD/CD/DVD	1/10G
Vibration/shock incl. SSD	16/150G
MTBF (25°C)	60'000h
For operating systems	WIN2000, WIN XP, LINUX
Part no. MPCX28-V1248	814420

[1] Must be ordered separately.

Manufacturer:

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Distribution: