



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
- $\underline{\ \ } Passenger\ entertainment,\ communication,\ measurement\ computer$
- _ 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	PClex 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

option 814325, front cover





Technical data

Type MPCX28

CPU Intel® Atom™, 1.6GHz

ChipsetIntel®Memory1GB

Ext. Temp. Harddisk SATA exchangeable¹⁾ OGB, option: 2.5" 80GB or 32GB SSD

Optical drive Video controller Intel®
2D. Support Direct

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 Stereo, DSub Line input/mic. input 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), lxx

 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

Extended operating temperature (with SSD) -40°C to $+70^{\circ}\text{C}$ (SSD, no HD)

 Vibration/shock incl. HD/CD/DVD
 1/10G

 Vibration/shock incl. SSD
 16/150G

 MTBF (25°C)
 60'000h

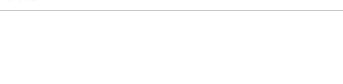
For operating systems WIN2000, WIN XP, LINUX

Part no. MPCX28-V1248 814420

Manufacturer:



Distribution:



¹⁾ Must be ordered separatly.