



MPCX28
with mounted
option 814325,
front cover

MPCX28R

The fanless Atom rail computer EN50155

The MPCX28R includes all the standard interfaces (COMs, Video, Sound, USB, LAN) as well as an additional external eSATA300 connector. On the front is an exchangeable SATA300 hard disk or SSD drive as well as a CF bracket for mass storage. The RTC battery is service-friendly, being accessible from the front. Expansion options include GPS, GSM and WLAN. The housing is a robust aluminum profile which integrates passive, maintenance-free and fan-free cooling. 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 railway vehicles
- _ Passenger entertainment, passenger safety
- _ For 24-110V galv. 1.5kV isolated rail power supply
- _ EN50155, TX certified, M12 connectors, 1500V isolation

Ordering information

Item	No.	Description
Option 80GB 24h SATA	807411	80GB Harddisk automotive, SATA 24h Seagate
Option 32GB SSD SATA	807417	SATA SLC 2.5"-SSD Intel
Opt. MPCX48/28 Front cover	814325	IP52 Protectioncover
Option MPCX28 WLAN	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



Technical data

Type	MPCX28R-xxx
CPU	Intel® Atom™, 1.6GHz
Chipset	Intel®
Memory	1GB
Ext. Temp. Harddisk (SATA) exchangeable	0GB, option: 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 back side, 3x front side
USB V2.0 M12	1x back side
Ext. SATA interface (ESATA)	300MB/sec
LAN Port A (with LAN boot), (LAN wake)	100BASE-T (M12)
LAN Port B	100BASE-T (M12)
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
Option 4	GPS AC80
Digital input/output	4x out/4x opto in
Remote power on/off	yes
DC-Spannungseingang (nicht isoliert), V1248	8-58VDC/typ.15W
DC-Spannungseingang (isoliert 1.5kV), Ixx	24/36/48/72/110VDC/typ.15W
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, EN50155
Protection class	IP52, EN50155
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) T1	-25°C to +55°C
Extended operating temperature (with SSD) TX	-40°C to +85°C
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. MPCX28R-V1248	814430
Part no. MPCX28R-I24	814431
Part no. MPCX28R-I36	814432
Part no. MPCX28R-I48	814433
Part no. MPCX28R-I72	814434
Part no. MPCX28R-I110	814435

Manufacturer:

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