



MPCX27R/RL

The EN50155 certified, IP65 protected, Atom rail computer (with display)

The MPCX27R is well sealed against water and has waterproof N/M12 cable connections. For mass storage, a flash disk is built-in (SATA SSD or optional CompactFlash). The RL version has a built-in 3.5" VGA touch screen. For navigation and communication expansion, the options GPS, GSM and WLAN with watertight antenna connections are available. The aluminum housing is totally watertight and includes passive, fanless cooling. The Atom processor offers high computer performance with only 15 Watt power consumption. 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
- _ Communication computer, 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 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
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
MPCxx M12 COM to DSub9	814693	M12-Plug with 2m cable to 9p-DSub COM connector
MPCxx N-Coax Antennacable	814694	N-Coax with 2m cable to SMA-Plug connector
MPCxx Poweradapter	807436	110/220VAC , 90W Supply, with M12 connector (19V)



Technical data

Type	MPCX27R-xxx	MPCX27RL-xxx
CPU	Intel® Atom 510, 1.1GHz	Intel® Atom 510, 1.1GHz
Chipset	Intel® US15W	Intel® US15W
Memory	1GB	1GB
SSD-Drive (2.5") SATA2	32GB	32GB
Optical drive	-	-
Video controller	US15W	US15W US15W
Video interface 1	QXGA MDSUB	QXGA MDSUB
Video interface 2	intern	3.5"-LCD 640x 480
Resolution	1600 x 1200 (@ 60Hz)	1600 x 1200 (@ 60Hz)
Keyboard, mouse	USB	USB
Serial interface COM1 M12 (Ringwake)	RS232C	RS232C
Serial interface COM2 M12	RS232C or GPS	RS232C or GPS
Parallel interface	-	-
USB V2.0 Standard	-	-
USB V2.0 M12	2x	2x
LAN Port A (with LAN boot), (LAN wake)	100/10MB-LAN (M12)	100/10MB-LAN (M12)
LAN Port B	100/10MB-LAN (M12)	100/10MB-LAN (M12)
Audio controller	AC97-2.3	AC97-2.3
Line output	-	-
Line input/mic. input	-	-
Option 1	WLAN PCIe MiniCard	WLAN PCIe MiniCard
Option 2	-	-
Option 3	GSM PCIe MiniCard	GSM PCIe MiniCard
Option 4	GPS A1080	GPS A1080
Digital input/output	-	-
Remote power on/off	yes	yes
DC voltage input (not isolated), V1248	8-58VDC/typ.15W	8-58VDC/typ.15W
DC voltage input (1.5kV isolated), Ixx	24/36/48/72/110VDC, 15W	24/36/48/72/110VDC, 15W
Plug-in power supply	-	-
Expansion	PCI/104ex	PCI/104ex
Power save function	Suspend/Resume, SoftOff, Instant On	Suspend/Resume, SoftOff, Instant On
Conformity	CE, FCC, e1, EN50155	CE, FCC, e1, EN50155
Protection class	IP65	IP65
Size (W x L x H in mm)	130 x 180 x 68	130 x 180 x 68
Weight	1 kg	1 kg
Housing	Aluminium	Aluminium
Colour	olive green	olive green
Noise level	0dB(A)	0dB(A)
Operating temperature (TX/T2)	-40°C to +85°C @ 1.1GHz	-40°C to +70°C @ 1.1GHz
Vibration/shock incl. SSD	16/150G	16/150G
MTBF	100'000h	80'000h
For operating systems	WIN2000, WIN XP, LINUX	WIN2000, WIN XP, LINUX
Part no. MPCX27-V1248	814700	814740
Part no. MPCX27-I24	814701	814741
Part no. MPCX27-I36	814702	814742
Part no. MPCX27-I48	814703	814743
Part no. MPCX27-I72	814704	814744

Manufacturer:

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