



## Features

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LTE	Cat. 4 (150 Mb/s DL, 50 Mb/s UL) 3GPP Rel. 9 FDD Bands: MPCI-L200: 2,4,5,7,17 (America) MPCI-L210: 1,3,5,7,8,20 (EU, Asia, Africa) All channel bandwidths: 1.4 - 20 MHz MIMO 2x2 Rx diversity
UMTS/HSPA	Bands: MPCI-L200: 850/AWS/1900/2100 MHz MPCI-L210: 850,900,2100 MHz 42 Mb/s downlink, 5.76 Mb/s uplink
GSM	Bands: MPCI-L200: 850/ 900/1800/1900 MHz MPCI-L210: 850/ 900/1800/1900 MHz GPRS & EDGE Class 12
SMS	MT/MO PDU / Text mode SMS over IMS and via SMS-C

## Software features

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Protocols	Dual stack IPv4 / IPv6 Embedded TCP/IP, UDP/IP <sup>1</sup> HTTP/FTP/SSL (Secure Socket Layer) <sup>1</sup>
Network	Jamming detection
Firmware update	Via USB

<sup>1</sup> Available in FW version 01S

## Electrical data

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Power supply	3.3 V +/- 9%
Power consumption	TBD

## Interfaces

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RF	2 Hirose UFL-R_XMT (50 Ω) Connectors (main and diversity)
Data	1 USB 2.0 (high-speed, 480 Mb/s)
(U)SIM	Supports 1.8 V and 3 V, SIM toolkit

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## Package

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52 pin PCI Express Mini Card, 30 x 51 x 3.5 mm  
(components on top side only)  
Card envelope: 5.2 mm

## Environmental data, quality & reliability

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Operating temperature -40 to +85°C (extended range)  
RoHS compliant (lead-free)  
Manufactured in ISO/TS 16949 certified production sites

## Certifications and approvals

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MPCI-L200:	PTCRB, FCC, IC, AT&T
MPCI-L210:	GCF, PTCRB, FCC, RTTE&D, KCC (Korea), A-tick (Australia), operators approvals

## Support products

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RIL software	Available for Android 4.2
USB driver	Available for Embedded Windows 6.x 7.x, Windows 7, 8

## Ordering information

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MPCI-L200-xxS <sup>1</sup>	LTE/HSPA+/GSM modules for America Cat. 4; Bands 2, 4, 5, 7, 17 Mini PCI Express
MPCI-L210-xxS <sup>1</sup>	LTE/HSPA+/GSM modules for Europe/Asia Cat. 4; Bands 1, 3, 5, 7, 8, 20 Mini PCI Express

<sup>1</sup> xx refers to firmware version.

## Contact us

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