

MC-RC6040 LTE Embedded Computer

Robust DIN-Rail Fanless Embedded System with RISC-based Processor

- Fanless design
- RISC-based Processor
- 4 COM, 2 CAN Bus and DIO
- 2 x 10/100 Mbps Ethernet Controller
- 128 MB DDR2 SDRAM onboard
- 4 GB eMMC onboard
- LTE/HSPA+/UMTS/EDGE/GPRS onboard
- MIMO antenna connectors
- Completed Industrial AP development software (Serial server, Modbus gateway, SNMP, Remote manager)
- Wide range DC power input (12V - 48V) with terminal block
- Ready-to-run embedded Linux operating system
- Wide temperature operation of -40°C to +70°C



EN60950-1



Isolation



Extended Temperature



IP40



UL508



Fanless



Low Power

MC-RC6040 LTE Embedded Computer

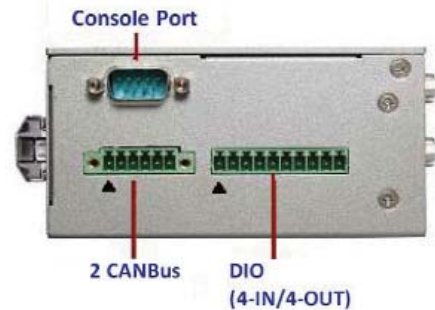
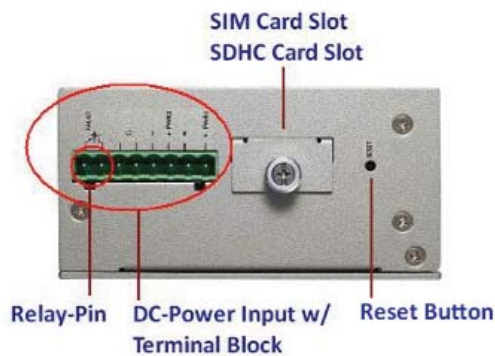
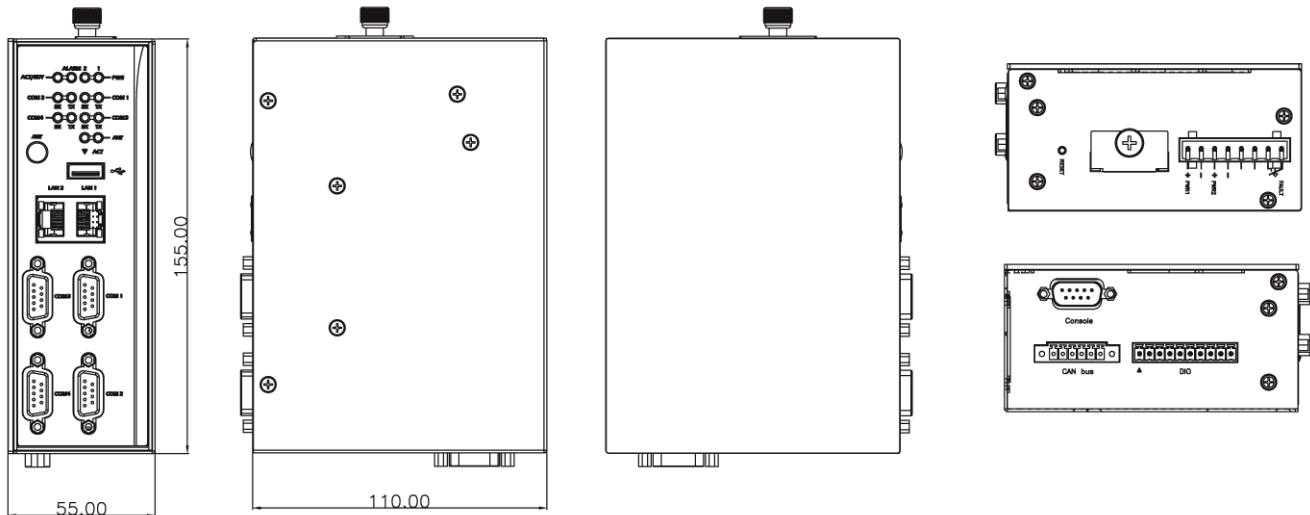
Hardware Specifications

- Construction: Extruded aluminum and heavy-duty steel, IP40
- CPU: iMX-287, ARM9 16-bit RISC CPU, 454 MHz
- System: Memory 1 x DDR2 128 MB SDRAM onboard
- Interfaces:
 - Serial Port 4 x RS-232/422/485 (COM 1-4)
COM 1-3 with TX/RX/RTS/CTS signals
RS-232/422/485 interface selected by software
 - LAN 2 x 10/100 Mbps Ethernet, magnetic isolation protection 1.5KV
 - USB 1 x USB 2.0, USB power distribution controlled by software
 - CAN 2 CAN 2.0 B (Phoenix connector, non-isolation)
Meets ISO 11898 standard, Software controlled termination resistor
120 ohm can high speed up to 1Mbit/s for transmit/receive
 - DIO 1 x DIO (4-IN/4-OUT)
DI: Input channels: 4, source type
Input voltage: 0 to 30VDC
Digital input levels for dry contacts:
-Logic level 0: close to GND
-Logic level 1: open
Digital input levels for wet contacts:
-Logic level 0: +10V to +24V (DI to COM-)
-Logic level 1: +3V max.
DO: Output channels: 4, sink type
Output current: Max. 200mA per channel
On-state voltage: 24VDC nominal, open collector to 30V
Optical isolation protection 2KV
 - Console Port DB9 connector for user setting with debug
 - RTC Battery onboard
Provides power for the internal real time clock & calendar
 - Alarm Contact One relay output with current 0.5A@30VDC
 - Wireless LTE: B1/B2/B3/B5/B7/B8/B20
HSPA+/HSPA/UMTS: 850/900/1900/2100 MHz
EDGE/GPRS/GSM: 850/900/1800/1900 MHz
1 x SIM socket by outside access and is easy plug/pull
2 x Antenna SMA
- Watchdog Timer: WDT 1: one step is 1 sec, 255 levels
- LEDs: System Power, Alarm, Ready/Active, COM (TX, RX), Wireless Alarm DC PWR1 or PWR2 is lost
- Storage 1 x eMMC 4 GB onboard (for boot disk)
Supports 1 x SDHC Card (easy-to-access, for store only.)
- Installation: DIN-Rail, optional wall mount
- Power Supply: Power Input 2 power paths with terminal block
Power Input Range 12V - 48VDC
Power Input Rating 12V - 48VDC, 0.68-0.19A
Power Protection DC Version:
OVP (Over voltage protection)
UVP (Under voltage protection)
Reverse protection
- Operating Temperature: -40°C to +70°C (-40°F to +158°F)
- Storage Temperature: -45°C to +85°C (-49°F to +185°F)
- Humidity: 5% - 95%
- Vibration Endurance: 5G@10-150Hz, amplitude 0.35ms
- Weight: 1 kg
- Dimensions: 55 mm (2.16") x 155 mm (6.10") x 110 mm (4.33")
- EOS Support Linux (Pre-installed)
- Certification: FCC Part 18, Heavy Industrial CE

Software Specifications

- OS: Linux Host OS/ Development OS: Ubuntu 10.04 LTS
Toolchain/ Cross compiler: Freescale LTIB
Kernel: 2.6.35.3
- Support protocol types ICMP
TCP/IP, IDP, DHCP, Telnet, SNMP, HTTP, HTTPS, SSL,
SMTP, ARP, NTP, DNS, PPP, PPPOE, FTP.TFTP
- Support software types Serial Server:
Supports TCP Server/TCP Client/UDP/Pair/VC
Supports IP filter
Supports 32 TCP connections
Supports QOS
Modbus gateway:
Supports Modbus TCP/Modbus RTU/Modbus ASCII
Supports IP filter
Supports 32 connections
Supports TCP for multiple com port
Supports QOS
- Setting configuration SNMP:
Supports V1/V2C/V3
Supports SNMP Private MIB
Supports read/write
http /https:
Supports SSL
Supports Import/Export
Supports FW update
- Remote Manager Remote Log
Email
SNMP
Supports Trap
- Serial Port Redirector for Windows XP/2003 32-64/Win7 32-64/Vista 32-64/2008 32-64
Real com (visual com)
Centralized management
Import/Export for real com
- HW's lib DI/DO:
Supports Read-DI/write DO
CAN:
Supports Open/write /read/Close
3G:
Supports setting number connection
Supports User name/password
Supports detecting signal strength
GPS:
Supports detecting signal strength
Supports satellite positioning
Watch Dog Timer:
Supports setting enable
Supports setting clean
Supports setting timer
COM:
Supports setting RS-232/422/485
Default Reading:
Supports default reading for MAC, IP, Model
- Scope of delivery: MC-RC6040 System Unit
DIN-Rail Kit
Power terminal block
CAN terminal block
DIO terminal block
Console cable
Screws

Dimensions



MIMO antennas (optional)

MC0114520



698 - 960 MHz
1710 - 2700 MHz
2G 3G 4G
Broadband antenna
2 x 2m SMA (male)

MC0114539



800 - 960 MHz
1710 - 2170 MHz
2500 - 2700 MHz
2x CS29 SMA (m)
omni-directional
wall, mast and desk
mount (optional)
IP67

MC0114540



698 - 800 MHz
800 - 960 MHz
1710 - 2170 MHz
2396 - 2700 MHz
2x CS29 SMA (m)
omni-directional
wall, mast and desk
mount (optional)



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Company profile

We are a leading European provider of innovative solutions for:

- Machine-to-machine (M2M) hardware and end-to-end solutions
- GSM/GPRS/UMTS/HSPA+/LTE/GPS modules, terminals and router
- Short range modules and solutions
- Customer-specific cable assemblies
- Connectors and assembly groups for industry
- Measuring and inspection technology

Thanks to our many years of experience we can offer:

- Wide-ranging, well-grounded specialist skills
- Competent design-in support
- Quick, professional implementation of all commercial and logistical processes
- Comprehensive service concepts for our products and solutions

